

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533174

Luminaire Tested: **GALN-SA8C-750-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-750-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48028 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

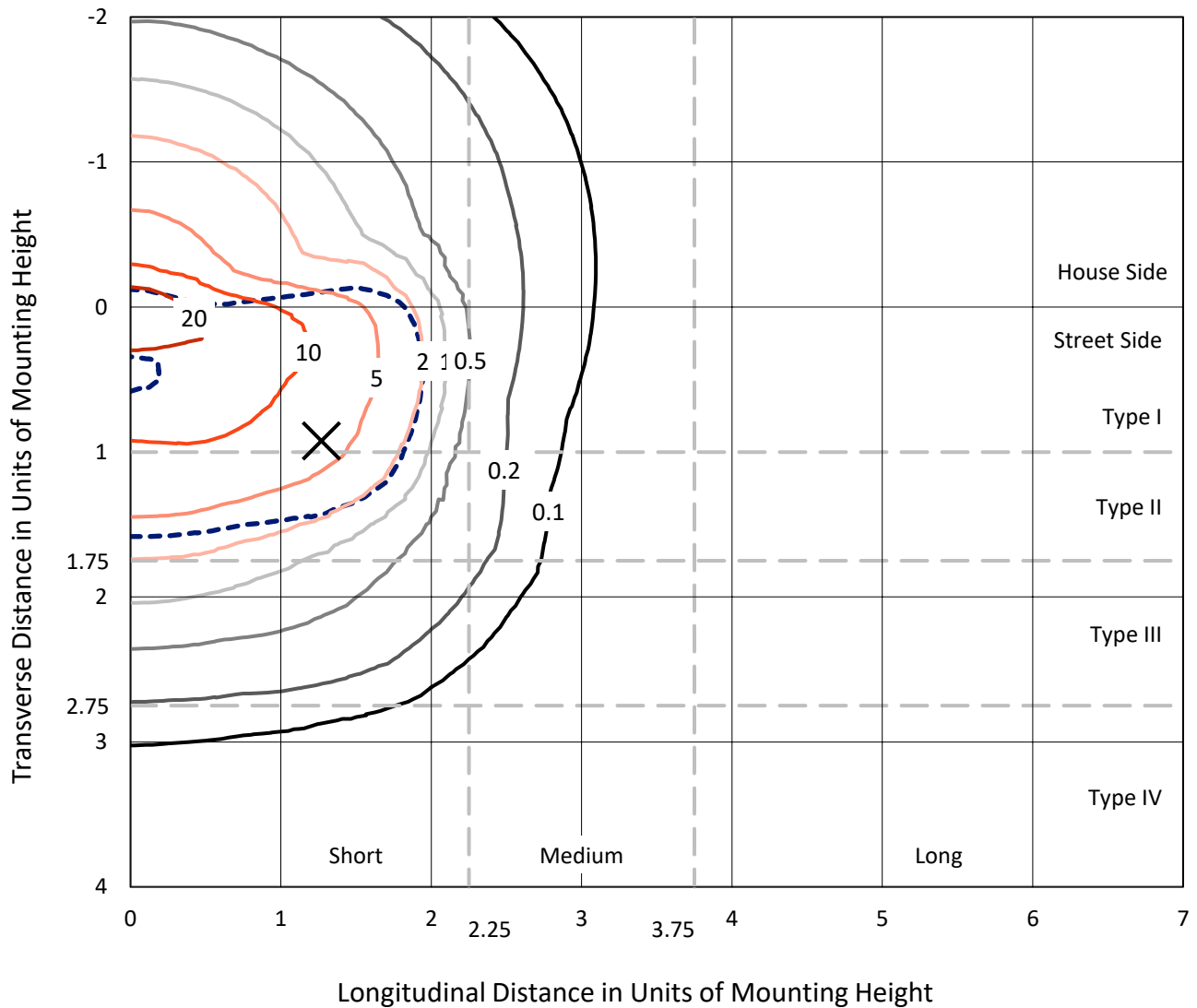
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533174
 CATALOG NUMBER: GALN-SA8C-750-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

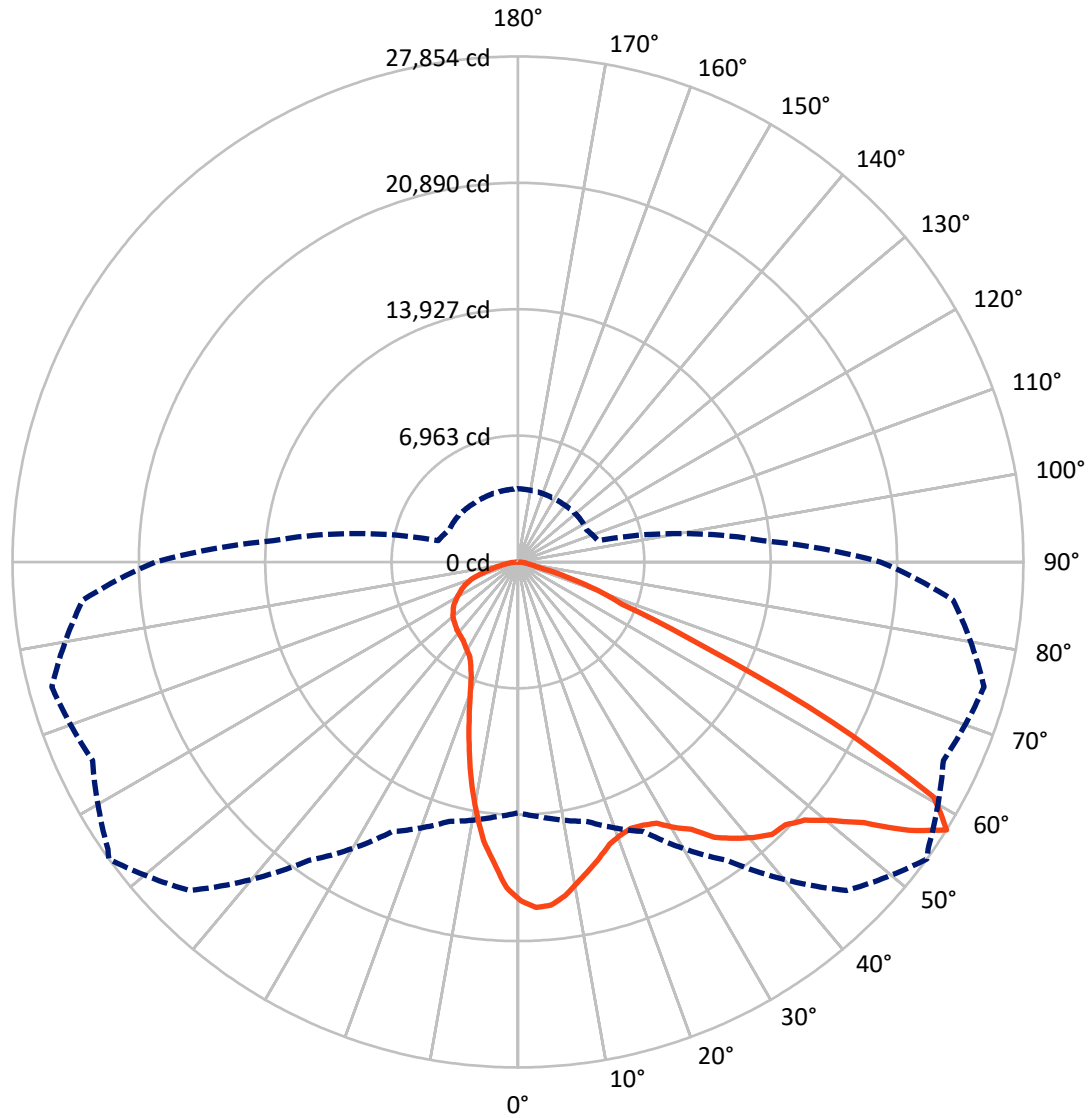
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.9 fc
 Type II - Short - N/A

REPORT NUMBER: P533174
CATALOG NUMBER: GALN-SA8C-750-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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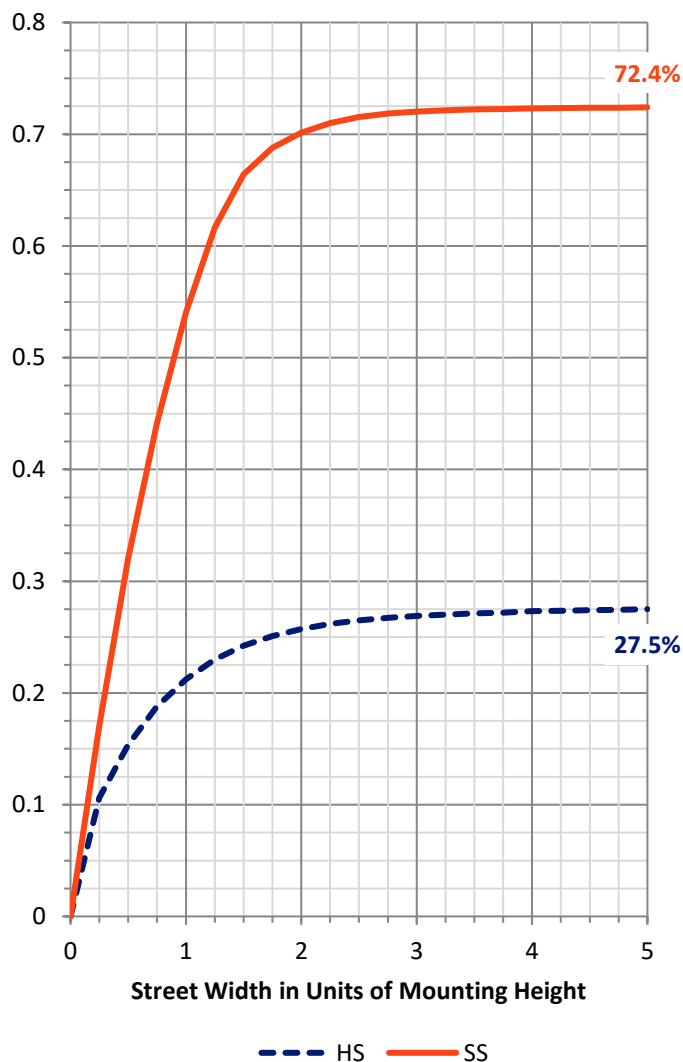
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13287.2	0.0	13287.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	34740.8	0.0	34740.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	48028.0	0.0	48028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1609.9	3.4
10°-20°	3727.6	7.8
20°-30°	5237.3	10.9
30°-40°	7321.8	15.2
40°-50°	9912.3	20.6
50°-60°	12073.6	25.1
60°-70°	6288.4	13.1
70°-80°	1611.3	3.4
80°-90°	245.8	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	48028.0	100.0
0°-180°	48028.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533174

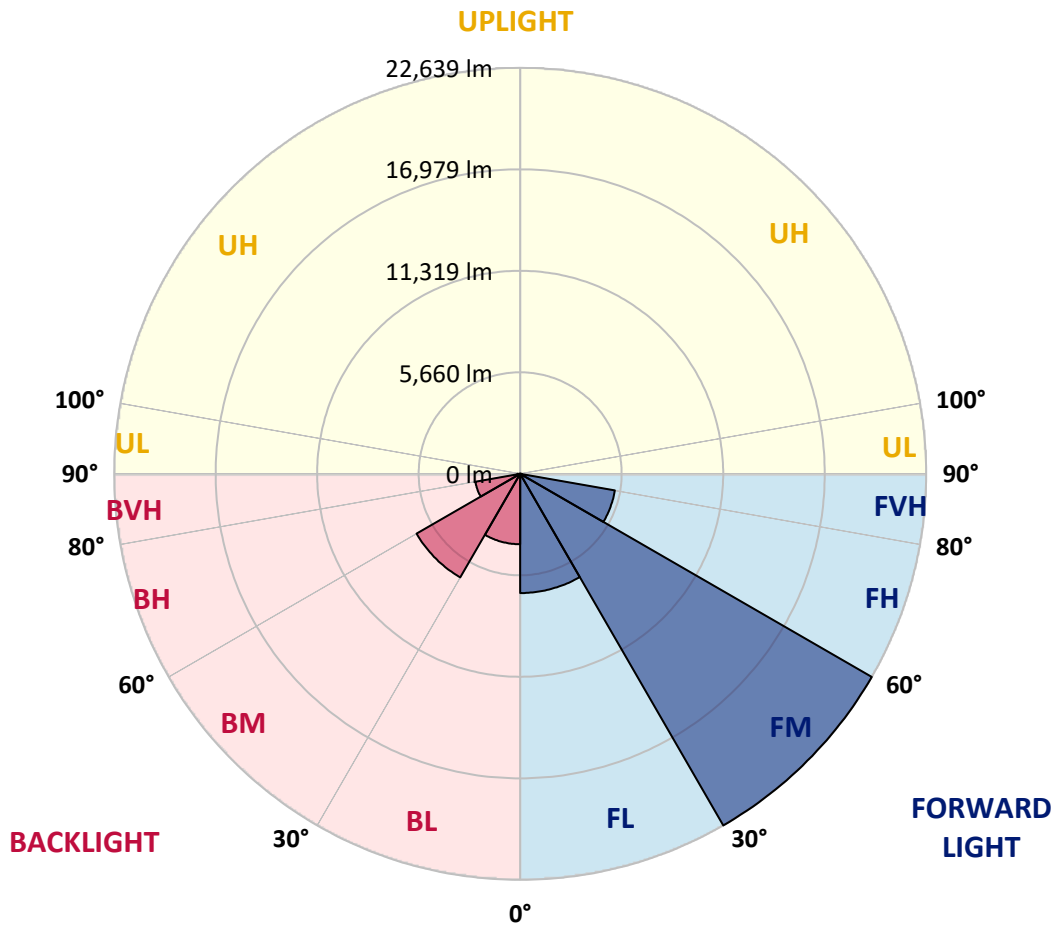
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6647.7	13.8			
FM (30°-60°)	22638.9	47.1			
FH (60°-80°)	5361.3	11.2			G3/7500
FVH (80°-90°)	92.9	0.2			G1/100
BL (0°-30°)	3927.1	8.2	B4/5000		
BM (30°-60°)	6668.7	13.9	B4/8500		
BH (60°-80°)	2538.5	5.3	B4/5000		G4/5000
BVH (80°-90°)	152.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





REPORT NUMBER: P533174

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	18667.9	18667.9	18667.9	18667.9	18667.9	18667.9	18667.9	18667.9	18667.9	18667.9	18667.9
2.5°	19198.8	19124.8	19137.1	19235.9	19112.4	19063.0	19063.0	18822.3	18840.8	18674.1	18630.9
5°	18754.4	18581.5	18698.8	18847.0	18871.7	18921.0	19001.3	18939.6	18766.7	18587.7	18297.5
7.5°	17593.8	17748.1	17791.3	17896.3	18118.5	18322.2	18575.3	18402.5	18396.3	18217.3	18044.4
10°	16575.2	16482.6	16717.2	16871.5	17241.9	17581.4	17970.4	17951.8	18044.4	17840.7	17544.4
12.5°	15562.8	15488.7	15599.8	15951.7	16470.3	16964.1	17427.1	17254.3	17748.1	17711.1	17075.2
15°	14488.6	14544.2	14704.7	15031.9	15710.9	16303.6	16890.0	16896.2	17334.5	17482.7	16630.8
17.5°	13735.5	13673.8	13877.5	14365.2	14970.2	15680.1	16346.8	16482.6	17155.5	17241.9	16494.9
20°	13173.7	13260.2	13525.6	13772.5	14470.1	15328.2	16081.3	16130.7	17118.4	17353.0	16278.9
22.5°	13037.9	12988.5	13075.0	13476.2	14050.3	14982.5	15939.4	16124.6	17112.3	17316.0	15871.4
25°	12895.9	13056.4	13050.3	13451.5	13871.3	14704.7	16056.6	16260.4	17439.5	17507.4	15927.0
27.5°	13216.9	13198.4	13371.3	13402.1	13920.7	14778.8	16303.6	16457.9	17982.7	17927.1	15970.2
30°	13538.0	13445.4	13550.3	13914.5	14155.3	15204.7	16982.6	16970.3	18686.5	18649.4	16106.0
32.5°	13933.0	13889.8	13957.7	14278.7	14686.2	15772.7	17556.7	17921.0	19402.6	19637.1	16575.2
35°	14007.1	14186.1	14346.7	14778.8	15359.1	16692.5	18637.1	18939.6	20229.8	20964.4	17470.3
37.5°	14476.3	14544.2	14920.8	15686.2	16217.1	17921.0	19322.3	19513.7	20982.9	21816.3	18414.8
40°	14976.3	15056.6	15624.5	16427.0	17155.5	18723.5	19964.3	20026.1	21223.7	22470.7	19032.2
42.5°	15655.4	15729.5	16291.2	17297.5	18272.8	19408.7	20532.3	20600.2	21205.1	23223.8	20013.7
45°	16359.1	16538.2	17198.7	18340.8	19217.4	20211.2	20661.9	20939.7	21378.0	23896.7	20810.1
47.5°	17346.9	17513.5	18056.8	19174.1	20198.9	20915.0	21260.7	21532.3	21791.6	24483.1	21322.4
50°	18396.3	18427.2	19087.7	20100.1	20853.3	21711.3	22378.1	22470.7	22334.8	25162.2	22192.9
52.5°	19168.0	19266.7	19779.1	20766.8	21890.4	22946.0	23859.6	23958.4	23693.0	25415.3	22489.2
55°	17890.1	17834.5	18667.9	19982.8	22588.0	24785.6	26112.9	26187.0	24680.7	26199.3	23458.4
57.5°	13828.1	14093.5	14803.5	16390.0	20069.3	25600.5	27853.7	27588.3	25866.0	26594.4	24075.7
60°	10050.1	9988.3	10463.7	11525.5	15124.5	22063.2	26335.1	26606.7	24896.8	23970.8	19853.2
62.5°	8185.7	8099.3	8136.4	8173.4	9759.9	14643.0	19495.2	19489.0	19174.1	17229.6	13389.8
65°	6543.7	6747.4	6765.9	7043.7	7247.4	8747.5	11297.1	11902.0	10364.9	8500.6	6167.1
67.5°	4932.4	4858.4	5105.3	6093.0	6475.7	6315.2	6167.1	6235.0	4432.4	3197.7	3012.6
70°	2907.6	2876.7	3173.1	4247.2	5333.7	5018.9	4648.5	4654.6	3043.4	2234.7	2487.8
72.5°	1592.7	1586.5	1648.3	2154.5	3031.1	3148.4	2790.3	2876.7	1814.9	1808.8	1944.6
75°	888.9	870.4	851.9	950.7	1092.7	1154.4	1179.1	1191.4	1247.0	1395.2	1450.7
77.5°	327.2	314.8	314.8	364.2	463.0	580.3	734.6	747.0	882.8	1012.4	1068.0
80°	111.1	123.5	166.7	228.4	308.7	413.6	500.0	512.4	623.5	709.9	728.4
82.5°	67.9	74.1	111.1	160.5	222.2	290.1	370.4	376.6	463.0	518.6	543.2
85°	30.9	37.0	61.7	98.8	142.0	191.4	197.5	197.5	191.4	197.5	185.2
87.5°	0.0	0.0	12.3	12.3	12.3	18.5	24.7	18.5	30.9	37.0	37.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P533174

CATALOG NUMBER: GALN-SA8C-750-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18667.9	18667.9	18667.9	18667.9	18667.9	18667.9	18667.9	18667.9	18667.9	18667.9	18667.9
2.5°	18501.3	18433.3	18223.5	18038.3	17982.7	17735.8	17371.5	17414.8	17149.3	17272.8	17143.1
5°	18248.2	18019.7	17482.7	17254.3	16655.5	16383.8	16198.6	15735.6	15519.6	15476.4	15291.2
7.5°	17600.0	17458.0	16785.1	16167.8	15531.9	14988.7	14291.1	13815.8	13476.2	13383.6	13112.0
10°	17087.6	16772.7	15840.6	14902.2	13994.8	13050.3	12142.8	11432.9	11087.2	10685.9	10550.1
12.5°	16581.4	16106.0	14846.7	13642.9	12470.0	11278.5	10179.7	9315.4	8562.3	8383.3	8321.6
15°	16266.5	15439.3	13957.7	12507.0	10840.2	9284.6	8185.7	7617.8	7154.8	6963.4	7099.2
17.5°	15852.9	14889.9	13105.8	11173.6	9340.1	7907.9	6988.1	6636.3	6469.6	6488.1	6432.5
20°	15334.4	14371.3	11988.5	9963.6	8000.5	6858.5	6333.8	6204.1	6228.8	6272.0	6253.5
22.5°	14964.0	13741.7	11179.8	8729.0	6914.0	6278.2	6062.1	5969.5	6049.8	6086.8	6056.0
25°	14680.0	13204.6	10198.2	7636.3	6284.4	5951.0	5852.2	5846.1	5969.5	6018.9	5988.1
27.5°	14420.7	12704.6	9222.8	6802.9	5864.6	5697.9	5667.1	5741.1	5821.4	5870.8	5914.0
30°	14266.4	12321.8	8309.2	6105.4	5654.7	5574.5	5518.9	5586.8	5630.0	5679.4	5654.7
32.5°	14414.6	12050.2	7426.4	5710.3	5481.9	5401.6	5475.7	5432.5	5506.5	5549.8	5481.9
35°	14877.6	11809.4	6796.8	5500.4	5284.3	5315.2	5327.5	5309.0	5339.9	5302.8	5383.1
37.5°	15334.4	11723.0	6216.5	5321.3	5191.7	5191.7	5179.4	5142.3	5204.1	5191.7	5228.7
40°	15914.7	11778.6	5722.6	5130.0	5105.3	5092.9	5043.6	5037.4	5012.7	5018.9	5031.2
42.5°	16420.9	11902.0	5438.6	5006.5	5025.0	5049.7	4957.1	4883.0	4913.9	4852.2	4852.2
45°	16957.9	12013.2	5185.5	4920.1	4901.6	4895.4	4821.3	4778.1	4753.4	4759.6	4815.1
47.5°	17803.7	12173.7	4994.2	4802.8	4815.1	4722.5	4704.0	4648.5	4673.2	4710.2	4716.4
50°	18402.5	12513.2	4846.0	4667.0	4710.2	4648.5	4537.3	4512.7	4512.7	4574.4	4562.0
52.5°	18822.3	12988.5	4704.0	4518.8	4537.3	4488.0	4450.9	4395.4	4358.3	4444.7	4488.0
55°	20106.3	13778.7	4667.0	4395.4	4389.2	4339.8	4271.9	4216.3	4197.8	4210.2	4296.6
57.5°	19982.8	13531.8	4549.7	4179.3	4166.9	4099.0	4031.1	4012.6	4006.4	4018.8	4043.5
60°	16223.3	9994.5	4062.0	3932.4	3913.8	3901.5	3833.6	3759.5	3722.5	3759.5	3728.6
62.5°	10735.3	6691.8	3580.5	3636.0	3648.4	3617.5	3506.4	3432.3	3444.7	3487.9	3420.0
65°	5272.0	3932.4	3247.1	3395.3	3407.6	3321.2	3216.3	3129.8	3086.6	3123.7	3092.8
67.5°	3012.6	3006.4	2975.5	3129.8	3123.7	3037.2	2870.6	2796.5	2722.4	2734.8	2716.2
70°	2555.7	2605.1	2666.8	2759.4	2753.3	2654.5	2457.0	2401.4	2296.5	2284.1	2253.2
72.5°	2012.5	2098.9	2234.7	2302.6	2247.1	2123.6	1994.0	1901.4	1808.8	1753.2	1771.7
75°	1493.9	1617.4	1691.5	1734.7	1648.3	1580.4	1475.4	1364.3	1253.2	1203.8	1185.3
77.5°	1086.5	1123.5	1191.4	1222.3	1166.7	1098.8	1037.1	926.0	821.0	753.1	734.6
80°	759.3	784.0	833.4	833.4	833.4	802.5	722.3	611.2	543.2	481.5	469.2
82.5°	530.9	555.6	605.0	580.3	574.1	537.1	487.7	401.3	327.2	284.0	271.6
85°	185.2	203.7	246.9	296.3	314.8	308.7	277.8	222.2	172.9	142.0	129.6
87.5°	43.2	43.2	49.4	43.2	43.2	49.4	43.2	43.2	43.2	30.9	24.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)