

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: P534239

Luminaire Tested: **GALN-SA9D-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34299 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

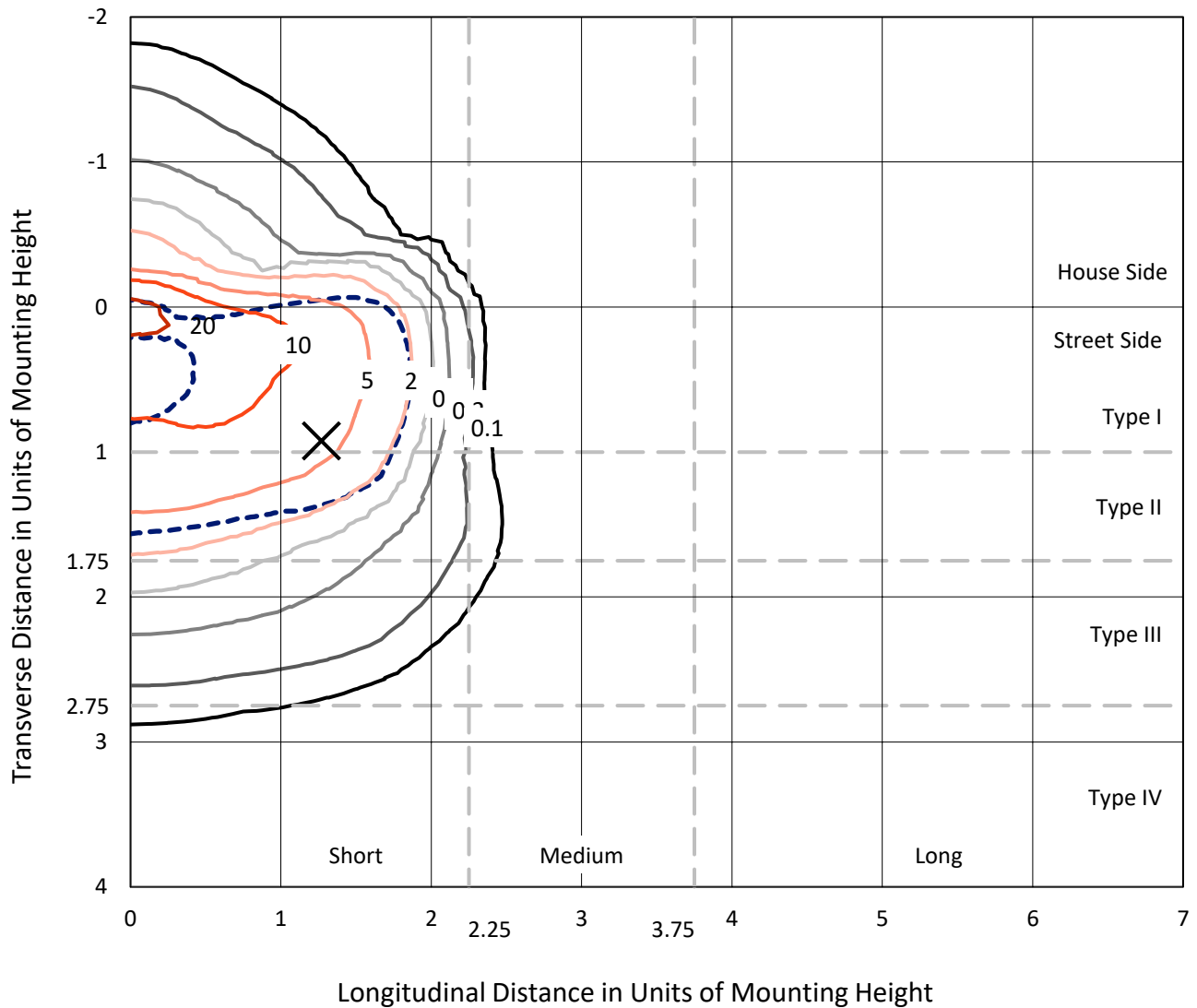
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

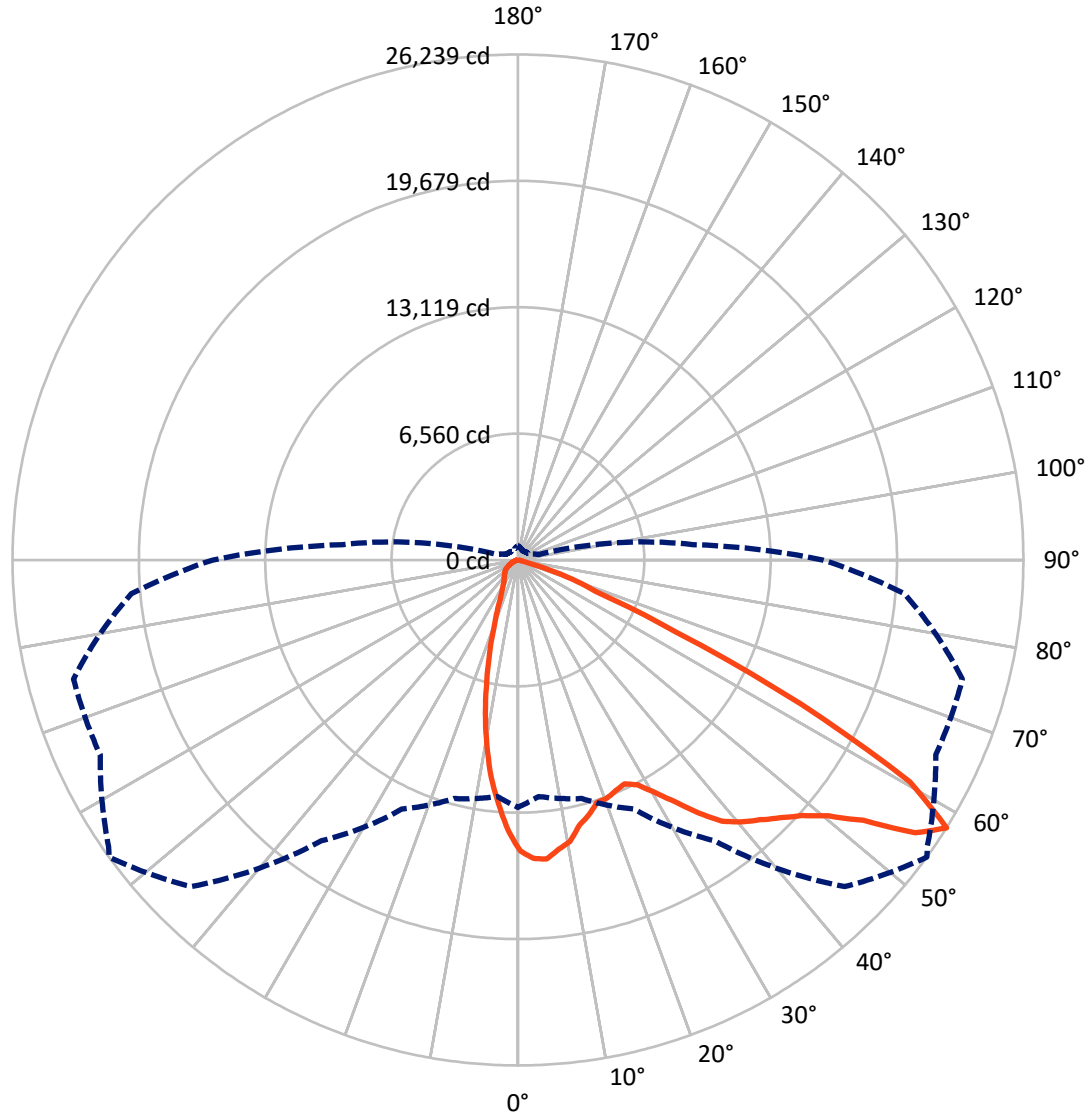
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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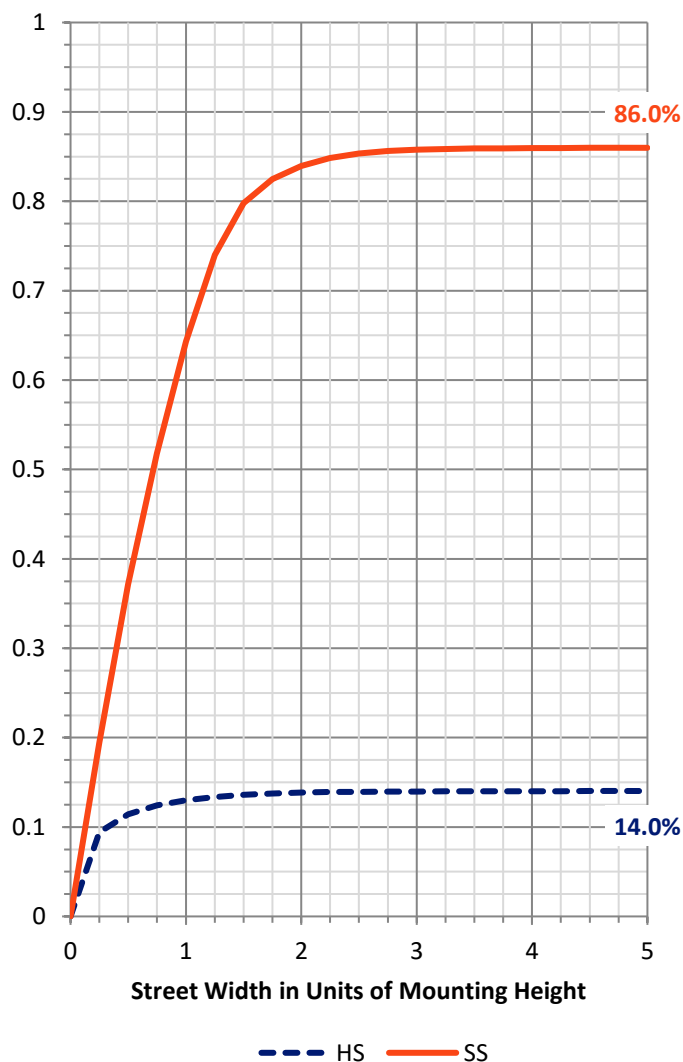
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4847.0	0.0	4847.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	29452.0	0.0	29452.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	34299.0	0.0	34299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1264.4	3.7
10°-20°	2699.4	7.9
20°-30°	3577.2	10.4
30°-40°	5198.7	15.2
40°-50°	7709.0	22.5
50°-60°	9639.8	28.1
60°-70°	3802.5	11.1
70°-80°	378.6	1.1
80°-90°	29.4	0.1
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°	34299.0	100.0
0°-180°	34299.0	100.0

Coefficient of Utilization



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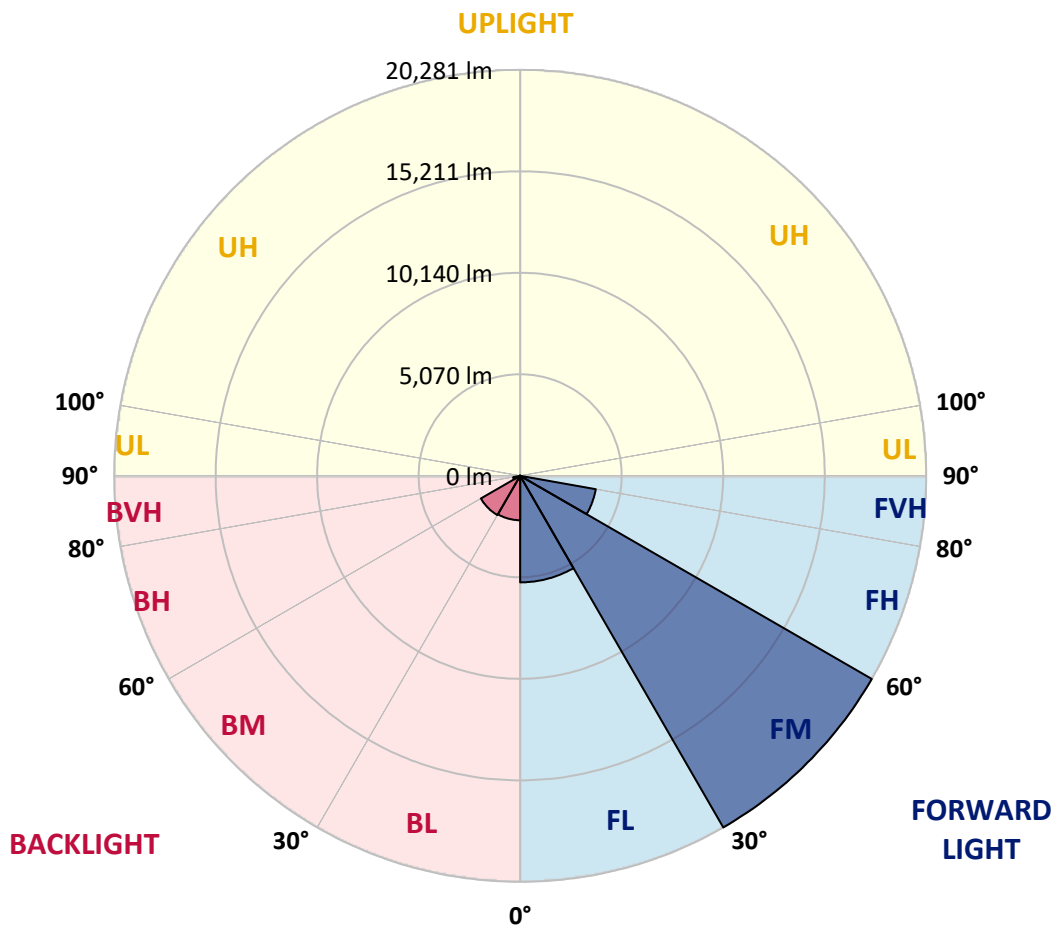
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5324.2	15.5			
FM (30°-60°)	20280.9	59.1			
FH (60°-80°)	3833.5	11.2			G2/5000
FVH (80°-90°)	13.4	0.0			G1/100
BL (0°-30°)	2216.8	6.5	B3/2500		
BM (30°-60°)	2266.6	6.6	B2/2500		
BH (60°-80°)	347.6	1.0	B1/500		G1/500
BVH (80°-90°)	16.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	15109.2	15109.2	15109.2	15109.2	15109.2	15109.2	15109.2	15109.2	15109.2	15109.2	15109.2
2.5°	15989.3	15823.5	15836.2	15778.8	15702.3	15759.7	15511.0	15568.4	15562.0	15224.0	15000.7
5°	15587.5	15766.1	15581.1	15734.2	15587.5	15747.0	15593.9	15479.1	15294.1	15045.4	14630.8
7.5°	14905.1	14732.9	14783.9	14975.2	15007.1	15364.3	15172.9	15319.6	15243.1	14752.0	14184.4
10°	13533.8	13495.6	13750.7	14005.8	14318.3	14701.0	14847.7	14764.8	14707.4	14522.4	13763.4
12.5°	12481.5	12589.9	12583.5	13004.5	13533.8	13750.7	14133.4	14120.6	14439.5	14095.1	13368.0
15°	11480.2	11537.6	11805.4	12066.9	12653.7	13272.3	13744.3	13808.1	14190.8	13948.4	13061.9
17.5°	10867.9	10785.0	10995.4	11308.0	11907.5	12717.5	13240.5	13393.5	13916.5	13865.5	12711.1
20°	10262.0	10262.0	10434.2	10804.1	11352.6	12264.6	13195.8	13151.2	13916.5	13769.8	12334.8
22.5°	10057.9	10159.9	10204.6	10485.2	11135.8	11920.2	13004.5	13087.4	14024.9	13725.2	12169.0
25°	10338.5	10204.6	10217.3	10440.6	11052.8	11754.4	12864.2	13049.1	14222.6	13948.4	12035.0
27.5°	10383.2	10517.1	10555.4	10708.4	11116.6	11805.4	13214.9	13591.2	14713.7	14471.4	12073.3
30°	10772.2	10906.2	10899.8	11161.3	11441.9	12220.0	13999.4	14076.0	15727.8	15128.3	12309.3
32.5°	11244.2	11384.5	11429.1	11735.3	11958.5	12979.0	14956.1	15153.8	16703.6	16161.5	12927.9
35°	11830.9	11779.9	11984.0	12290.2	12768.5	14088.7	16123.3	16454.9	17756.0	17500.9	13565.7
37.5°	12564.4	12500.6	12698.3	13195.8	13846.4	15402.6	17201.1	17418.0	18521.3	18744.6	14745.6
40°	13081.0	13106.5	13706.0	14375.7	15064.5	16652.6	17883.5	18094.0	19057.1	19905.3	15638.5
42.5°	13942.0	14101.5	14822.2	15638.5	16359.2	17590.2	18438.4	18642.5	19305.8	20836.5	16844.0
45°	15192.1	15121.9	15919.2	16831.2	17628.4	18566.0	19095.3	19025.2	19452.5	21761.3	17602.9
47.5°	16799.3	16812.1	17341.4	18119.5	18948.6	19414.2	19828.8	19580.1	19758.6	22737.1	18617.0
50°	17896.3	17992.0	18419.3	19216.5	19631.1	20345.4	20874.8	20721.7	20664.3	23323.9	19254.8
52.5°	18176.9	18463.9	18693.5	19688.5	20657.9	21786.8	22462.9	22788.1	21767.7	23521.6	20064.8
55°	16059.5	16314.6	17124.6	18489.4	21047.0	24070.1	25001.2	25007.6	23209.1	24401.7	20632.4
57.5°	12838.6	12322.0	12819.5	14267.3	17794.3	23974.4	26238.6	25938.8	23929.8	23885.1	20141.3
60°	8878.0	8750.4	8782.3	9356.3	12315.7	19069.8	23381.3	23770.3	22035.5	20702.6	15944.7
62.5°	7034.8	6926.4	6786.1	6722.3	7647.1	11882.0	16493.2	17041.7	15408.9	13425.4	9452.0
65°	5510.5	5446.7	5465.8	5720.9	5714.6	6741.4	9018.3	8795.1	7041.2	5204.3	2972.1
67.5°	3718.3	3814.0	3890.5	4662.2	5057.6	4694.1	4356.1	4228.5	2289.7	963.1	656.9
70°	2091.9	2104.7	2187.6	2914.7	3839.5	3641.8	3004.0	3004.0	1141.6	350.8	376.3
72.5°	1141.6	1103.4	1026.8	1256.4	1709.3	1734.8	1339.4	1167.1	338.0	229.6	210.5
75°	554.9	548.5	472.0	389.0	369.9	306.1	236.0	216.8	153.1	146.7	127.6
77.5°	114.8	108.4	57.4	57.4	63.8	70.2	89.3	89.3	108.4	108.4	89.3
80°	0.0	0.0	6.4	25.5	44.6	63.8	76.5	76.5	89.3	89.3	70.2
82.5°	0.0	0.0	6.4	19.1	38.3	57.4	70.2	76.5	89.3	95.7	76.5
85°	0.0	0.0	0.0	12.8	31.9	44.6	38.3	38.3	31.9	25.5	12.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15109.2	15109.2	15109.2	15109.2	15109.2	15109.2	15109.2	15109.2	15109.2	15109.2	15109.2
2.5°	14885.9	14873.2	14579.8	14414.0	14114.2	13852.7	13642.3	13489.2	13489.2	13393.5	13304.2
5°	14465.0	14356.6	13731.6	13329.7	12762.1	12341.2	12054.2	11830.9	11480.2	11575.8	11199.5
7.5°	13942.0	13667.8	12838.6	12226.4	11441.9	10842.4	10230.1	9688.0	9165.0	8929.0	9056.6
10°	13380.8	12902.4	11786.3	10816.9	9841.1	8744.1	8029.7	7162.3	6626.6	6594.7	6454.4
12.5°	12787.6	12245.5	10887.0	9547.7	8265.7	6945.5	5854.9	5044.9	4681.4	4279.5	4356.1
15°	12341.2	11537.6	9885.7	8272.1	6569.2	5236.2	4139.2	3514.2	3169.8	3074.1	3042.2
17.5°	11856.5	10995.4	8865.2	6913.6	5153.3	3769.3	2978.5	2678.7	2544.8	2544.8	2525.6
20°	11352.6	10383.2	7851.2	5650.8	3865.0	2812.6	2385.3	2289.7	2283.3	2276.9	2276.9
22.5°	11021.0	9681.6	6932.7	4490.0	2914.7	2251.4	2072.8	2034.5	2060.1	2136.6	2136.6
25°	10670.2	9005.6	5918.7	3463.2	2257.8	1932.5	1830.4	1856.0	1919.7	1989.9	1964.4
27.5°	10313.0	8565.5	4962.0	2717.0	1849.6	1690.1	1651.9	1709.3	1779.4	1843.2	1824.1
30°	10230.1	8093.5	4056.3	2060.1	1588.1	1473.3	1498.8	1549.8	1620.0	1645.5	1671.0
32.5°	10357.7	7723.6	3322.9	1690.1	1384.0	1352.1	1352.1	1377.6	1422.3	1479.7	1460.5
35°	10721.2	7513.1	2627.7	1466.9	1269.2	1237.3	1230.9	1256.4	1282.0	1301.1	1282.0
37.5°	11276.1	7347.3	2149.3	1301.1	1192.7	1141.6	1128.9	1122.5	1148.0	1154.4	1167.1
40°	11984.0	7436.6	1824.1	1199.0	1116.1	1058.7	1020.5	1020.5	1020.5	1039.6	1046.0
42.5°	12749.4	7557.8	1575.3	1141.6	1046.0	975.8	937.5	924.8	937.5	963.1	956.7
45°	13553.0	7793.8	1415.9	1052.3	982.2	892.9	841.9	829.1	861.0	912.0	905.7
47.5°	14305.6	8131.8	1294.7	994.9	918.4	835.5	771.7	759.0	816.4	886.5	892.9
50°	15058.1	8718.5	1250.1	950.3	873.8	778.1	720.7	707.9	771.7	861.0	880.1
52.5°	15925.5	9350.0	1218.2	892.9	822.7	733.5	669.7	656.9	727.1	841.9	848.3
55°	16493.2	9885.7	1192.7	790.9	727.1	663.3	612.3	605.9	682.4	784.5	810.0
57.5°	15829.9	9139.5	1103.4	688.8	618.7	586.8	542.1	542.1	605.9	701.6	720.7
60°	12003.1	6014.3	784.5	554.9	523.0	503.9	484.7	484.7	535.7	605.9	612.3
62.5°	7028.4	3240.0	503.9	446.5	446.5	427.3	395.4	395.4	446.5	484.7	491.1
65°	2085.6	1039.6	408.2	382.7	376.3	344.4	312.5	306.1	344.4	363.5	357.2
67.5°	599.5	478.3	338.0	318.9	312.5	261.5	242.4	236.0	242.4	229.6	223.2
70°	357.2	325.3	261.5	267.9	236.0	191.3	172.2	165.8	153.1	133.9	121.2
72.5°	197.7	197.7	191.3	204.1	165.8	127.6	108.4	89.3	70.2	57.4	51.0
75°	121.2	127.6	133.9	140.3	108.4	82.9	70.2	44.6	25.5	12.8	12.8
77.5°	82.9	89.3	95.7	102.0	89.3	76.5	57.4	31.9	6.4	0.0	0.0
80°	63.8	70.2	82.9	89.3	95.7	102.0	76.5	31.9	6.4	0.0	0.0
82.5°	70.2	76.5	95.7	89.3	89.3	89.3	70.2	31.9	6.4	0.0	0.0
85°	12.8	19.1	31.9	31.9	44.6	57.4	44.6	12.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)