

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: P534260

Luminaire Tested: **GALN-SA9D-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57632 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

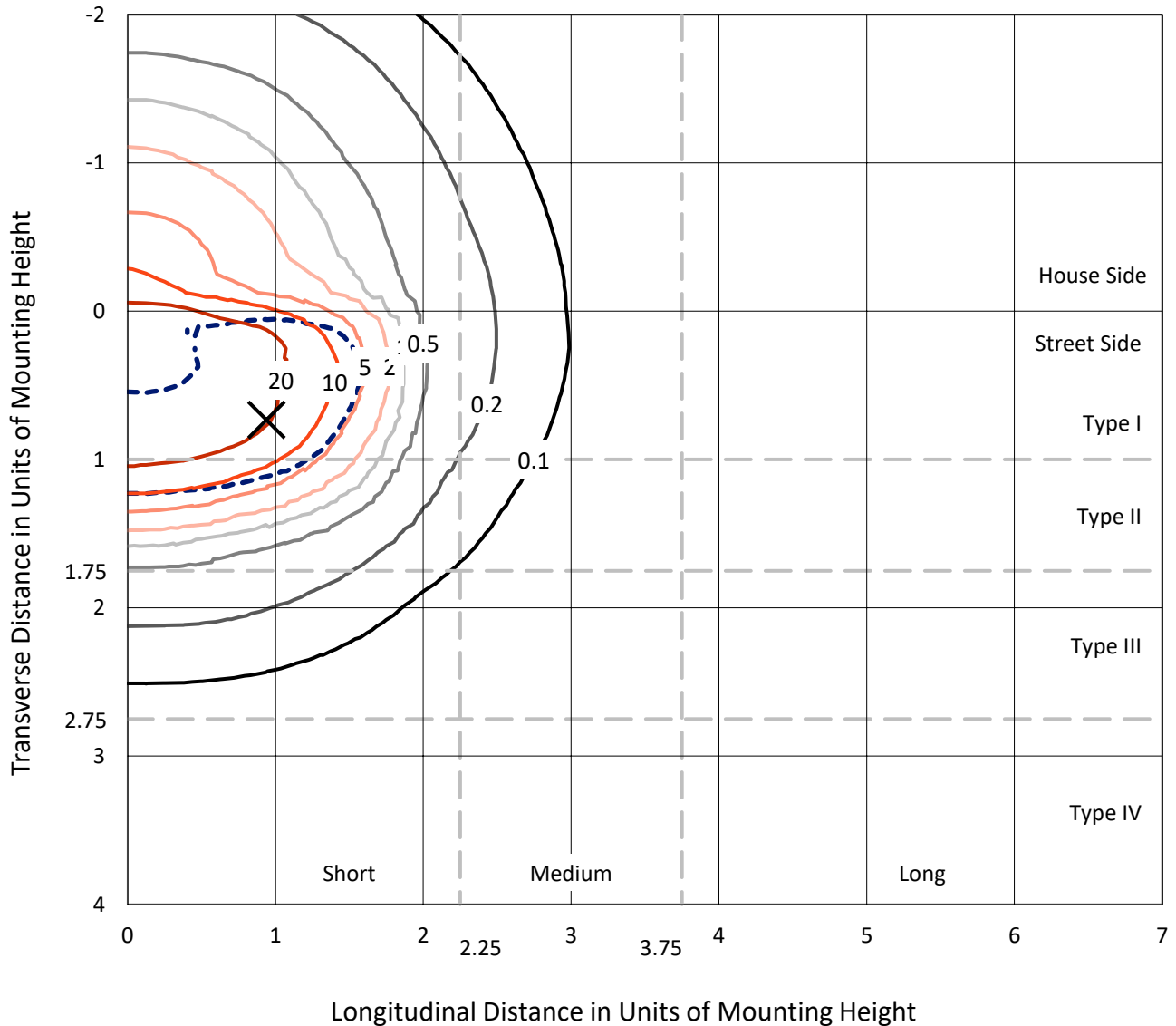
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

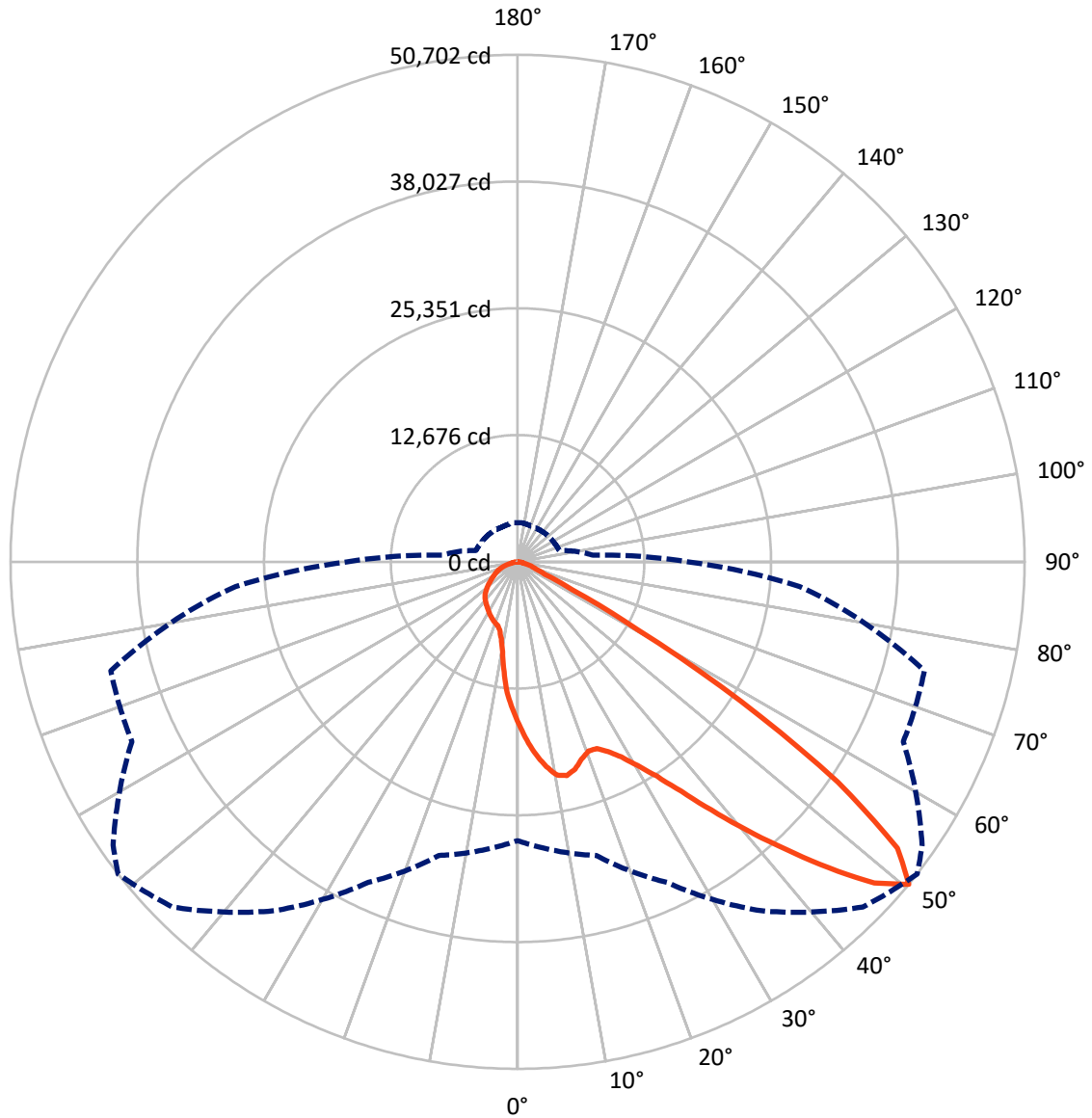
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10833.5	0.0	10833.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	46798.6	0.0	46798.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	57632.0	0.0	57632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1497.3	2.6
10°-20°	4013.2	7.0
20°-30°	6760.2	11.7
30°-40°	11344.1	19.7
40°-50°	17353.7	30.1
50°-60°	12652.3	22.0
60°-70°	2815.8	4.9
70°-80°	1015.6	1.8
80°-90°	179.8	0.3
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°	57632.0	100.0
0°-180°	57632.0	100.0

Coefficient of Utilization



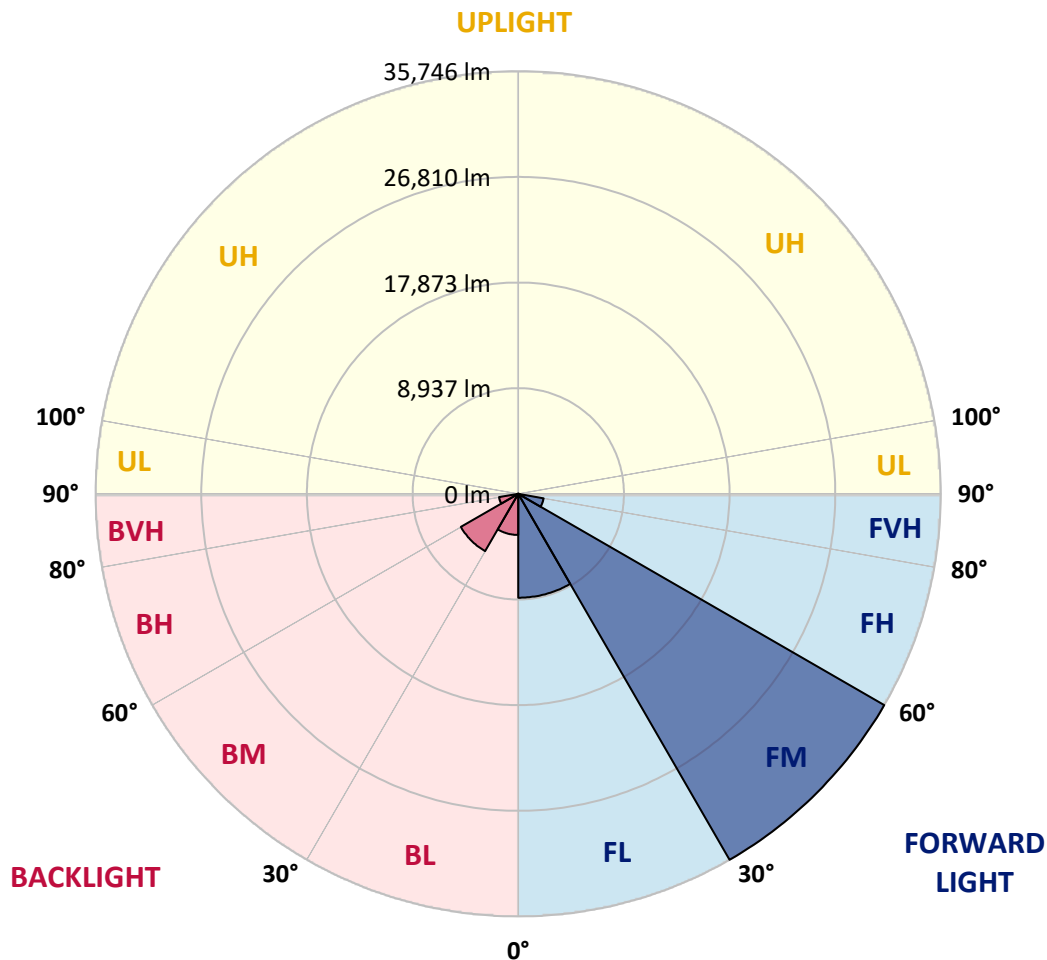
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8790.8	15.3			
FM (30°-60°)	35746.3	62.0			
FH (60°-80°)	2180.9	3.8			G2/5000
FVH (80°-90°)	80.6	0.1			G1/100
BL (0°-30°)	3479.9	6.0	B4/5000		
BM (30°-60°)	5603.8	9.7	B4/8500		
BH (60°-80°)	1650.5	2.9	B3/2500		G3/2500
BVH (80°-90°)	99.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	16245.5	16245.5	16245.5	16245.5	16245.5	16245.5	16245.5	16245.5	16245.5	16245.5	16245.5
2.5°	19127.9	18759.8	18801.4	18537.5	18252.8	18169.4	17877.7	17599.9	17391.5	16947.0	16537.2
5°	20905.9	20794.8	20628.1	20419.7	20204.4	19676.6	19377.9	19030.6	18266.6	17579.0	16898.4
7.5°	21162.9	21142.1	21232.4	21232.4	21308.8	21107.3	20683.7	20440.6	19628.0	18509.7	17245.7
10°	19357.1	19419.6	19857.2	20426.7	21218.5	21767.2	21697.7	21635.2	20746.2	19218.2	17655.4
12.5°	17919.4	17780.5	18037.4	18523.6	19711.3	21037.9	21933.9	21940.8	21711.6	20350.3	17954.1
15°	17106.7	17204.0	17273.4	17502.6	18398.6	19933.6	21510.2	21975.5	22982.6	21149.0	18426.4
17.5°	17627.7	17301.2	17287.3	17342.9	17801.3	18954.2	20725.3	21524.1	23677.2	22177.0	19009.8
20°	18308.3	18301.4	18106.9	18037.4	18030.5	19058.4	20211.4	21294.9	24045.3	23510.5	19600.2
22.5°	19502.9	19502.9	19183.4	19030.6	18704.2	19544.6	20280.8	21017.1	24656.5	24427.3	19884.9
25°	21503.2	21176.8	20628.1	20253.1	20065.5	20364.2	21017.1	21676.9	25191.3	25399.7	20475.3
27.5°	23350.7	22836.8	22565.9	21920.0	21669.9	21496.3	22093.6	22760.4	25816.4	26913.8	20794.8
30°	25448.3	25358.0	24871.8	24038.3	23420.2	23100.7	23649.4	24309.2	26962.4	28462.6	21531.0
32.5°	29198.8	28379.3	27719.5	26698.5	25691.4	25010.7	25552.5	25990.0	28865.5	30080.9	22336.7
35°	33248.1	32984.1	31845.1	30004.5	28462.6	27851.4	28170.9	28497.4	31081.1	32553.5	23691.1
37.5°	37227.8	36866.7	35929.0	34380.2	32504.9	31261.7	31490.9	31872.9	33567.6	35887.4	25344.1
40°	40089.4	39644.9	39172.6	38943.4	37082.0	35380.3	35248.4	35345.6	36929.2	39012.8	27177.7
42.5°	40297.7	40846.4	40992.3	41916.0	41478.5	40082.4	39269.8	39290.6	40138.0	42103.6	29032.2
45°	39860.2	39353.2	40429.7	42950.9	44395.6	45048.5	43680.2	43506.6	42124.4	43895.5	29955.9
47.5°	35269.2	35408.1	37227.8	41214.5	45388.8	48305.9	47986.4	47409.9	43187.1	43833.0	29810.1
50°	27879.2	28719.6	30407.4	35373.4	42610.6	48819.9	50702.1	49368.6	42555.0	42110.5	28323.7
52.5°	18565.3	18912.6	20023.9	26434.5	34262.1	43638.5	47576.6	47882.2	41971.6	39853.2	26441.5
55°	8265.1	8237.4	9800.1	13807.6	21496.3	33206.4	38873.9	40735.3	39728.2	37554.3	24607.9
57.5°	3500.5	3618.6	4257.6	5966.2	10571.0	20037.7	26337.3	27969.5	30553.2	30838.0	18877.8
60°	2368.4	2382.3	2555.9	2986.6	4424.3	9411.1	13814.6	15773.2	17620.7	17495.7	10015.4
62.5°	1861.4	1910.0	2042.0	2215.6	2625.4	4271.5	6181.5	7271.9	7390.0	6216.2	3799.2
65°	1590.5	1597.5	1729.4	1875.3	2055.9	2486.5	2979.6	3035.2	3069.9	2958.8	2792.1
67.5°	1312.7	1326.6	1430.8	1597.5	1764.2	1903.1	2042.0	2111.4	2271.2	2583.7	2542.1
70°	1041.8	1062.7	1153.0	1291.9	1444.7	1528.0	1701.6	1764.2	1910.0	2153.1	2250.3
72.5°	791.8	798.7	875.1	972.4	1111.3	1194.6	1340.5	1409.9	1507.2	1715.5	1805.8
75°	569.5	590.4	645.9	694.5	715.4	770.9	909.9	986.3	1125.2	1215.5	1222.4
77.5°	298.7	312.5	326.4	326.4	395.9	500.1	590.4	632.0	729.3	798.7	764.0
80°	118.1	125.0	159.7	215.3	277.8	361.2	423.7	444.5	527.9	569.5	590.4
82.5°	69.5	76.4	104.2	152.8	201.4	257.0	305.6	326.4	382.0	430.6	444.5
85°	34.7	41.7	62.5	97.2	132.0	159.7	152.8	145.9	145.9	138.9	145.9
87.5°	13.9	13.9	20.8	20.8	20.8	27.8	34.7	34.7	34.7	41.7	41.7
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°	16245.5	16245.5	16245.5	16245.5	16245.5	16245.5	16245.5	16245.5	16245.5	16245.5	16245.5
2.5°	16266.3	15988.5	15731.5	15259.2	14745.3	14599.4	14002.1	13786.8	13634.0	13453.4	13397.9
5°	16349.7	15981.6	15155.1	14203.5	13446.5	12474.1	11835.1	11147.5	10647.4	10522.4	10487.7
7.5°	16523.3	15891.3	14467.5	13029.7	11480.9	10161.3	9154.2	8612.4	8133.2	8105.4	8056.8
10°	16717.8	15620.4	13717.3	11460.1	9480.6	8258.2	7653.9	7417.8	7299.7	7271.9	7258.0
12.5°	16877.5	15564.8	12876.9	9932.1	8063.7	7327.5	7146.9	7126.1	7174.7	7188.6	7216.4
15°	16947.0	15342.6	11862.9	8563.8	7181.6	6910.8	6987.2	7070.5	7105.2	7195.5	7126.1
17.5°	17079.0	15057.8	10612.7	7480.3	6688.5	6737.1	6869.1	6966.3	7021.9	7084.4	6994.1
20°	17148.4	14800.8	9438.9	6834.4	6514.9	6605.2	6785.7	6862.1	6931.6	6959.4	6855.2
22.5°	17085.9	14273.0	8404.0	6313.5	6348.2	6466.3	6626.0	6709.3	6667.7	6556.5	6494.0
25°	16919.2	13529.8	7327.5	5980.1	6112.0	6320.4	6445.4	6382.9	6306.5	6244.0	6223.2
27.5°	16912.3	12620.0	6549.6	5674.5	5910.6	6195.4	6153.7	6098.1	6132.9	6084.3	6028.7
30°	16947.0	11737.9	5910.6	5500.8	5764.8	5903.7	5952.3	5896.7	5938.4	5848.1	5875.9
32.5°	16766.4	10876.6	5493.9	5299.4	5591.1	5584.2	5743.9	5785.6	5688.4	5500.8	5528.6
35°	16842.8	10182.1	5139.7	5209.1	5396.6	5396.6	5521.7	5473.0	5216.1	5104.9	5132.7
37.5°	17370.7	9501.4	4966.0	5084.1	5209.1	5264.7	5223.0	5014.6	4952.1	4952.1	4966.0
40°	17870.8	8918.0	4861.8	5056.3	5035.5	5070.2	4764.6	4785.4	4785.4	4792.4	4757.7
42.5°	18315.3	8522.1	4778.5	4889.6	4924.4	4743.8	4556.2	4535.4	4584.0	4577.1	4549.3
45°	18475.0	8195.7	4660.4	4702.1	4729.9	4431.2	4340.9	4299.3	4354.8	4375.7	4403.4
47.5°	17863.8	7924.8	4528.5	4445.1	4389.6	4195.1	4077.0	4000.6	4070.1	4188.1	4215.9
50°	17079.0	7570.6	4320.1	4160.3	4042.3	3958.9	3875.6	3799.2	3847.8	3931.1	3910.3
52.5°	15919.1	7014.9	4056.2	3889.5	3688.1	3708.9	3632.5	3590.8	3618.6	3618.6	3597.8
55°	14266.0	5764.8	3611.7	3493.6	3326.9	3382.5	3396.3	3340.8	3285.2	3333.8	3292.2
57.5°	9737.6	4070.1	3222.7	3222.7	3056.0	3132.4	3125.5	2993.5	2861.5	2875.4	2847.7
60°	5632.8	3243.5	2972.7	2944.9	2771.3	2833.8	2847.7	2757.4	2555.9	2569.8	2542.1
62.5°	3201.9	2771.3	2597.6	2555.9	2521.2	2576.8	2576.8	2458.7	2285.1	2299.0	2271.2
65°	2722.6	2569.8	2319.8	2312.8	2299.0	2312.8	2257.3	2132.3	1979.5	1917.0	1923.9
67.5°	2472.6	2375.4	2132.3	2069.8	2028.1	2021.1	1917.0	1798.9	1729.4	1673.9	1666.9
70°	2167.0	2090.6	1910.0	1826.7	1785.0	1687.8	1583.6	1507.2	1409.9	1382.2	1409.9
72.5°	1715.5	1708.6	1639.1	1548.8	1458.6	1382.2	1291.9	1187.7	1097.4	1076.6	1027.9
75°	1187.7	1201.6	1215.5	1201.6	1125.2	1027.9	923.8	840.4	729.3	666.8	652.9
77.5°	777.9	798.7	819.6	791.8	743.2	652.9	583.4	479.2	395.9	347.3	340.3
80°	569.5	597.3	611.2	590.4	534.8	465.3	388.9	305.6	243.1	201.4	201.4
82.5°	437.6	465.3	479.2	444.5	388.9	333.4	277.8	215.3	166.7	132.0	125.0
85°	152.8	145.9	173.6	180.6	215.3	201.4	166.7	125.0	97.2	69.5	62.5
87.5°	41.7	41.7	48.6	48.6	41.7	34.7	34.7	34.7	27.8	20.8	20.8
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)