

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: P534272

Luminaire Tested: **GALN-SA9D-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53573 lumens
Efficiency: N/A
Efficacy: 97.1 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

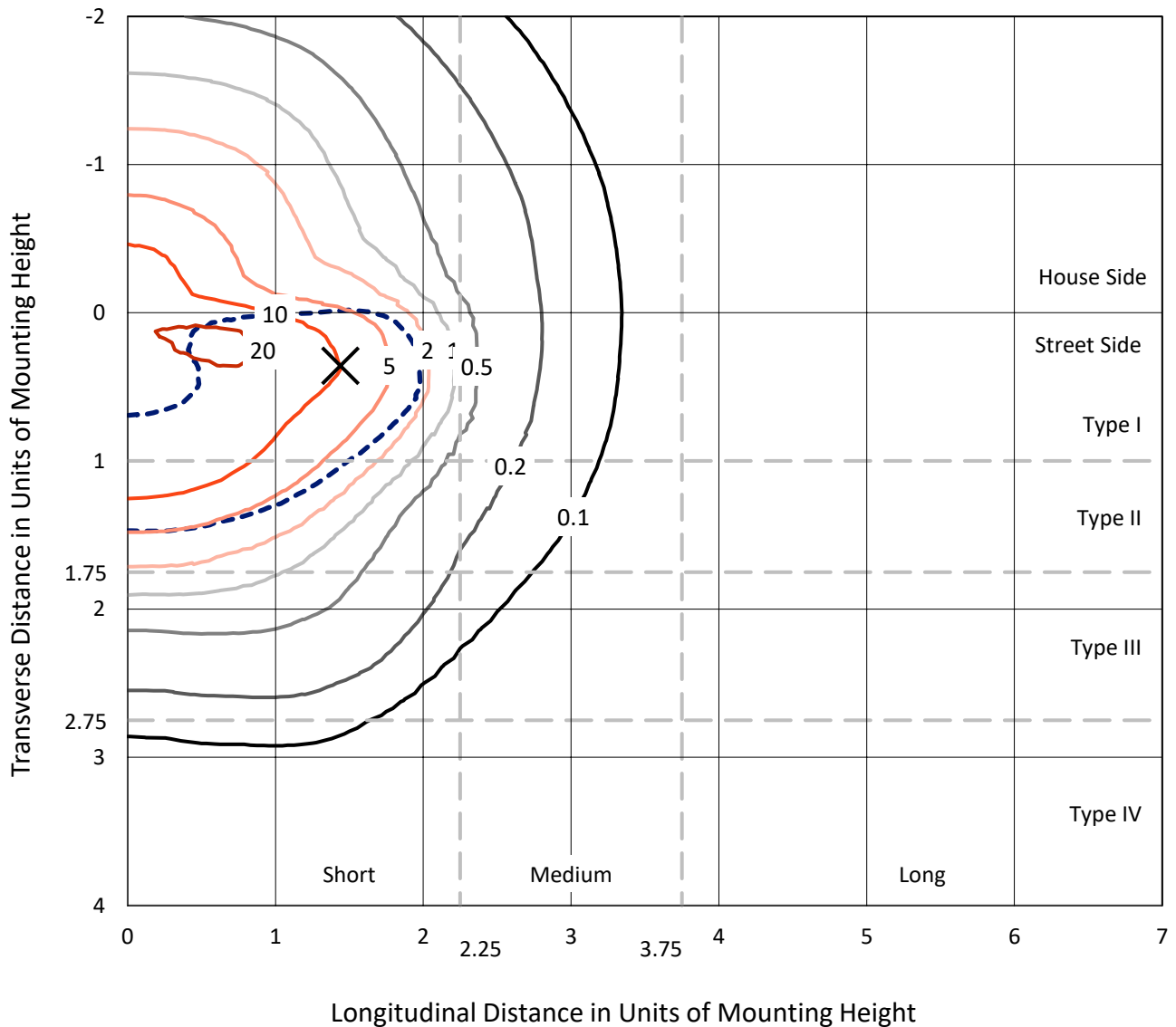
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

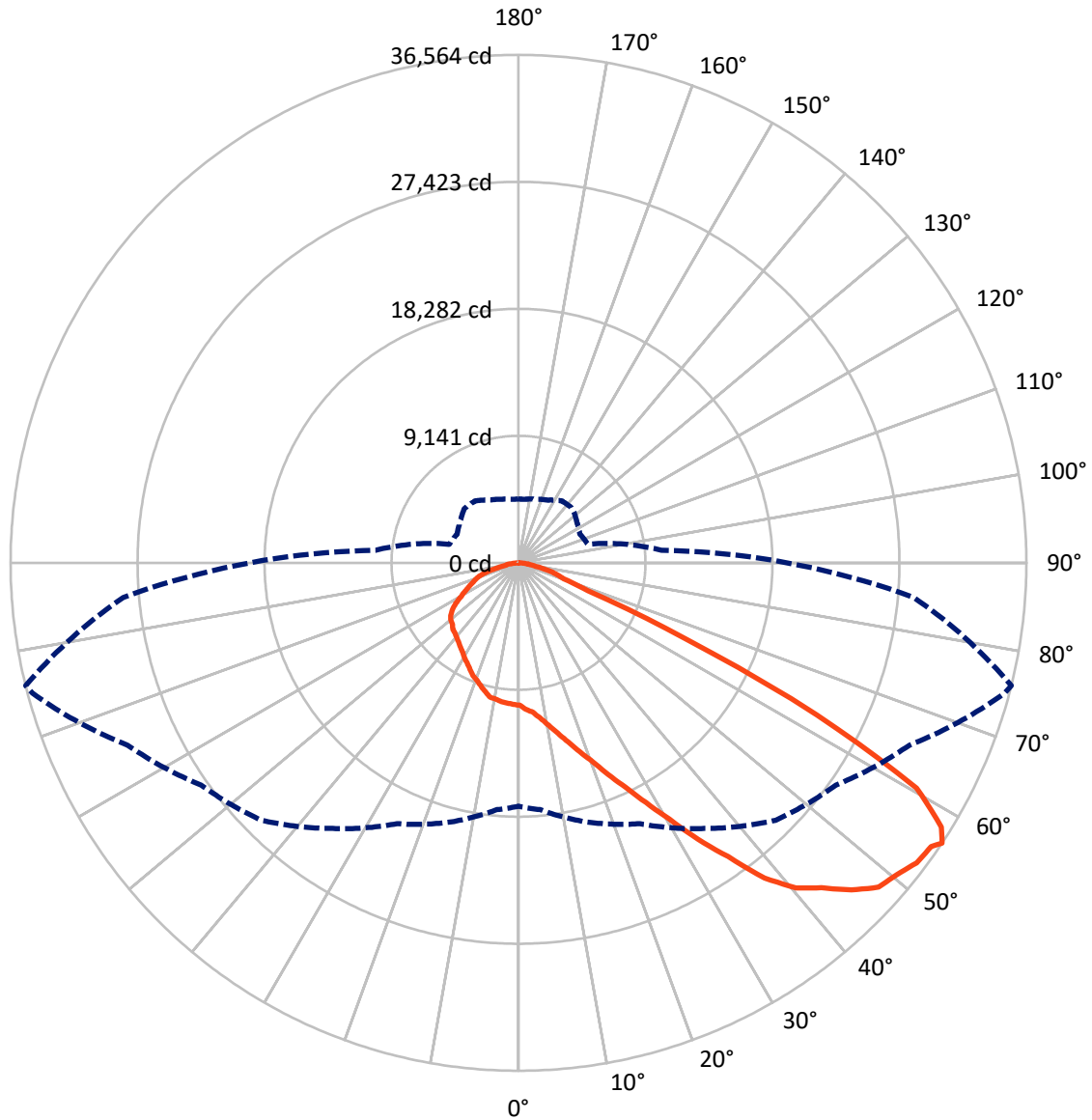
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14404.2	0.0	14404.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	39168.8	0.0	39168.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	53573.0	0.0	53573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1016.5	1.9
10°-20°	3193.3	6.0
20°-30°	5584.6	10.4
30°-40°	8743.9	16.3
40°-50°	12719.9	23.7
50°-60°	13980.0	26.1
60°-70°	6240.1	11.6
70°-80°	1802.4	3.4
80°-90°	292.4	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°	53573.0	100.0
0°-180°	53573.0	100.0

Coefficient of Utilization



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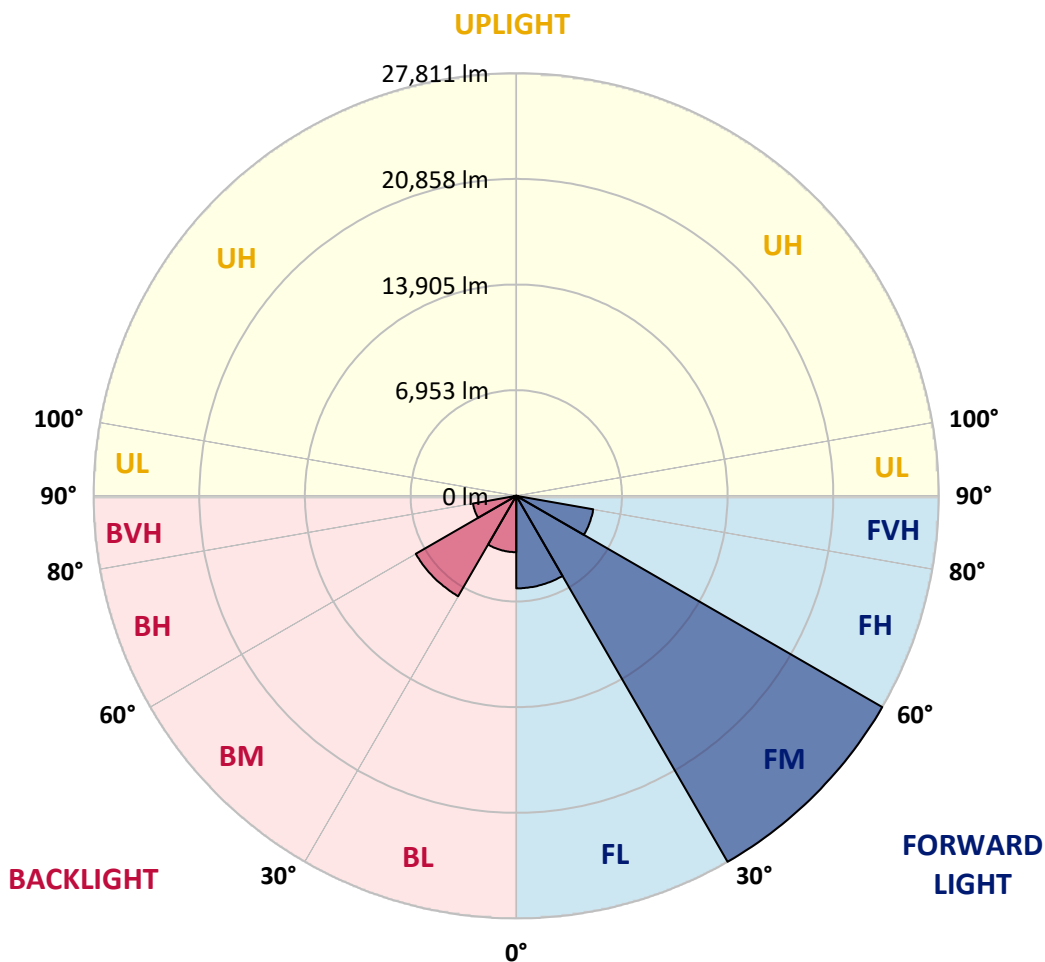
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6088.0	11.4			
FM (30°-60°)	27810.7	51.9			
FH (60°-80°)	5144.3	9.6			G3/7500
FVH (80°-90°)	125.8	0.2			G2/225
BL (0°-30°)	3706.5	6.9	B4/5000		
BM (30°-60°)	7633.0	14.2	B4/8500		
BH (60°-80°)	2898.1	5.4	B4/5000		G4/5000
BVH (80°-90°)	166.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	10250.5	10250.5	10250.5	10250.5	10250.5	10250.5	10250.5	10250.5	10250.5	10250.5	10250.5
2.5°	11292.2	11111.7	11097.8	11049.2	11076.9	10951.9	10820.0	10646.4	10465.8	10576.9	10313.0
5°	12083.9	11840.9	11938.1	11771.4	11792.2	11625.6	11354.7	11153.3	10931.1	10799.1	10611.6
7.5°	12361.7	12382.6	12452.0	12424.2	12285.3	12285.3	12104.8	11750.6	11361.7	11285.3	10972.8
10°	12736.7	12743.7	12667.3	12688.1	12882.6	12792.3	12632.6	12479.8	11979.8	11889.5	11333.9
12.5°	12868.7	12743.7	12868.7	12979.8	13209.0	13334.0	13299.3	13188.2	12653.4	12590.9	11778.4
15°	12889.5	12813.1	12917.3	13167.3	13368.7	13896.5	14160.4	14084.0	13375.7	13382.6	12278.4
17.5°	12792.3	12896.5	12938.1	13153.4	13618.7	14111.8	14875.7	14979.9	14396.5	14306.3	12910.4
20°	12924.2	12847.9	12903.4	13097.9	13716.0	14486.8	15486.9	16174.4	15354.9	15292.4	13563.2
22.5°	13431.2	13327.0	13313.2	13438.2	13882.6	14681.3	16132.7	17368.9	16521.6	16556.4	14375.7
25°	13827.1	13882.6	13834.0	13827.1	14104.9	14973.0	16986.9	18792.6	18105.1	17903.7	15334.1
27.5°	14507.7	14639.6	14542.4	14674.3	14611.8	15410.5	17598.1	20369.1	19813.5	19542.6	16202.2
30°	15452.2	15521.6	15431.3	15431.3	15243.8	16021.6	18153.7	22015.0	21785.8	21417.7	17223.1
32.5°	16695.3	16799.4	16618.9	16514.7	16486.9	16931.4	19153.7	23640.1	24029.0	23716.4	18577.3
35°	18341.2	18278.7	18063.4	17966.2	17591.1	18327.3	20639.9	25508.2	26529.1	25973.5	20216.3
37.5°	19792.6	19695.4	19681.5	19139.8	19230.1	19834.3	21903.9	26924.9	28952.8	28793.1	21945.5
40°	21146.9	21237.2	21383.0	21077.4	20938.5	21605.2	23376.2	28008.3	30834.9	30772.4	23278.9
42.5°	22598.3	22515.0	22772.0	22515.0	22306.7	23251.1	24973.5	28758.4	32487.7	31973.8	24674.8
45°	24702.6	24438.7	24529.0	24549.8	24397.0	24744.3	25633.2	29300.1	33647.5	33591.9	25695.7
47.5°	26459.6	26466.6	26313.8	26195.7	25730.4	26077.7	26369.4	29640.4	34980.9	34890.6	26091.6
50°	27112.4	27022.2	27466.6	27723.6	27751.4	27043.0	26945.8	29827.9	35682.3	35286.5	26487.4
52.5°	24765.1	24848.4	25549.9	27077.7	27959.7	28036.1	27619.4	30216.8	35967.1	35883.7	26806.9
55°	19931.5	20334.3	21487.2	23251.1	25341.5	27640.3	28348.6	30619.6	36119.8	36050.4	28223.6
56°	17521.7	17834.2	19334.3	20716.3	23341.4	26202.7	27890.3	31050.1	36237.9	36564.3	28557.0
57.5°	14104.9	14466.0	15542.4	17112.0	20209.3	23466.4	26626.3	30522.3	35779.5	35904.5	28800.0
60°	8819.9	8854.6	10146.3	11181.1	13361.8	16542.5	20320.4	26556.9	33112.7	32932.2	25869.3
62.5°	5785.0	5792.0	6965.6	7812.9	8806.0	9535.2	11958.9	17612.0	24431.8	24112.3	18417.6
65°	4062.7	4153.0	5062.7	6194.8	6597.5	6215.6	6139.2	9285.2	13646.5	13188.2	9896.3
67.5°	2972.4	2979.3	3784.9	5000.2	5583.6	4729.4	3840.5	4534.9	5403.0	5389.2	4583.6
70°	1965.4	2048.7	2666.8	3736.3	4403.0	3798.8	3139.0	3243.2	3437.7	3437.7	3409.9
72.5°	1145.9	1222.3	1632.0	2368.2	2472.3	2375.1	2486.2	2777.9	2902.9	2896.0	2861.3
75°	652.8	687.5	777.8	986.2	1229.2	1451.5	1826.5	2104.3	2229.3	2305.7	2215.4
77.5°	382.0	402.8	458.4	562.5	638.9	784.8	993.1	1187.6	1354.2	1333.4	1347.3
80°	201.4	201.4	257.0	333.3	444.5	555.6	659.8	770.9	861.2	882.0	902.8
82.5°	118.1	125.0	166.7	243.1	319.5	395.9	507.0	583.4	666.7	673.6	687.5
85°	62.5	69.4	104.2	159.7	215.3	243.1	250.0	236.1	257.0	243.1	277.8
87.5°	20.8	20.8	34.7	27.8	27.8	34.7	41.7	41.7	55.6	55.6	55.6
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°	10250.5	10250.5	10250.5	10250.5	10250.5	10250.5	10250.5	10250.5	10250.5	10250.5	10250.5
2.5°	10306.1	10306.1	10188.0	9965.8	9931.0	9840.8	9757.4	9750.5	9688.0	9632.4	9604.6
5°	10500.5	10285.2	10111.6	9910.2	9674.1	9563.0	9438.0	9299.1	9243.5	9299.1	9292.1
7.5°	10722.8	10542.2	10021.3	9646.3	9375.5	9264.3	9125.5	8979.6	8993.5	8993.5	8896.3
10°	10938.0	10695.0	9861.6	9382.4	8986.6	8903.2	8826.8	8882.4	8951.8	8965.7	8903.2
12.5°	11299.2	10750.5	9785.2	9118.5	8868.5	8687.9	8736.5	8889.3	9035.2	8993.5	9042.1
15°	11570.0	10799.1	9438.0	8847.7	8535.1	8618.5	8792.1	8896.3	9139.3	9111.6	9160.2
17.5°	11833.9	10826.9	9097.7	8486.5	8354.6	8583.8	8715.7	9014.3	9090.7	9257.4	9319.9
20°	12375.6	10882.5	8750.4	8264.3	8222.6	8486.5	8715.7	8854.6	9021.3	9167.1	9167.1
22.5°	12653.4	10854.7	8521.3	7972.6	8104.6	8271.2	8479.6	8715.7	8715.7	8854.6	8861.5
25°	13000.6	10743.6	8160.1	7833.7	7930.9	8090.7	8326.8	8243.5	8333.7	8333.7	8444.9
27.5°	13396.5	10507.5	7847.6	7583.7	7778.2	7951.8	7986.5	7930.9	7826.8	7812.9	7771.2
30°	13716.0	10215.8	7618.4	7500.4	7660.1	7757.3	7646.2	7528.1	7347.6	7333.7	7236.5
32.5°	14153.5	9854.7	7333.7	7292.0	7472.6	7479.5	7444.8	7264.2	7000.3	6889.2	6778.1
35°	14889.6	9646.3	7118.4	7180.9	7236.5	7215.6	7153.1	6958.7	6694.8	6646.2	6604.5
37.5°	15431.3	9493.5	6896.2	6972.6	7021.2	7049.0	6861.4	6646.2	6653.1	6555.9	6528.1
40°	16042.5	9396.3	6715.6	6750.3	6757.3	6847.6	6618.4	6514.2	6562.8	6500.3	6542.0
42.5°	16827.2	9424.1	6528.1	6500.3	6632.3	6597.5	6486.4	6347.5	6375.3	6187.8	6215.6
45°	17243.9	9611.6	6417.0	6292.0	6437.8	6430.9	6285.0	6153.1	5986.4	5625.3	5639.2
47.5°	17521.7	9660.2	6153.1	6069.7	6222.5	6312.8	6146.1	5840.6	5604.4	5347.5	5285.0
50°	17806.4	9750.5	6028.1	5854.5	5917.0	6132.2	5923.9	5632.2	5403.0	5173.9	5208.6
52.5°	18056.4	9924.1	5785.0	5528.1	5639.2	5875.3	5764.2	5410.0	5160.0	4972.5	4916.9
55°	19167.6	10313.0	5375.3	5041.9	5305.8	5604.4	5541.9	5111.4	4840.5	4743.3	4729.4
56°	19341.2	10326.9	5160.0	4875.2	5118.3	5514.2	5437.8	4979.4	4736.3	4583.6	4590.5
57.5°	19369.0	10160.2	4854.4	4722.5	4930.8	5382.2	5285.0	4875.2	4541.9	4403.0	4361.3
60°	17042.5	7930.9	4472.4	4389.1	4632.2	4979.4	4944.7	4590.5	4215.5	4055.8	4132.1
62.5°	11618.6	5812.8	4173.8	4159.9	4284.9	4625.2	4534.9	4215.5	3903.0	3798.8	3750.2
65°	6764.2	4409.9	3882.1	3826.6	3930.7	4111.3	4173.8	3840.5	3514.1	3444.6	3423.8
67.5°	3993.3	3646.0	3507.1	3416.8	3382.1	3493.2	3541.8	3347.4	3021.0	2923.8	3007.1
70°	3340.4	3243.2	3250.2	3097.4	3014.0	2937.6	2896.0	2722.4	2451.5	2326.5	2291.8
72.5°	2882.1	2840.4	2812.6	2673.7	2597.4	2423.7	2243.2	2069.5	1868.1	1764.0	1770.9
75°	2201.5	2187.6	2201.5	2132.0	2000.1	1861.2	1694.5	1472.3	1319.5	1187.6	1215.3
77.5°	1312.6	1354.2	1375.1	1347.3	1291.7	1166.7	1062.6	916.7	770.9	666.7	652.8
80°	902.8	937.5	972.3	937.5	882.0	791.7	680.6	569.5	465.3	409.7	395.9
82.5°	687.5	722.3	743.1	708.4	638.9	541.7	465.3	388.9	305.6	250.0	236.1
85°	250.0	284.7	277.8	333.3	361.1	347.2	298.6	229.2	173.6	125.0	118.1
87.5°	69.4	62.5	69.4	69.4	69.4	62.5	55.6	55.6	55.6	34.7	27.8
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)