

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: P533350

Luminaire Tested: **GALN-SA8D-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533350
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-SA8D-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 52510 lumens
Efficiency: N/A
Efficacy: 106.5 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

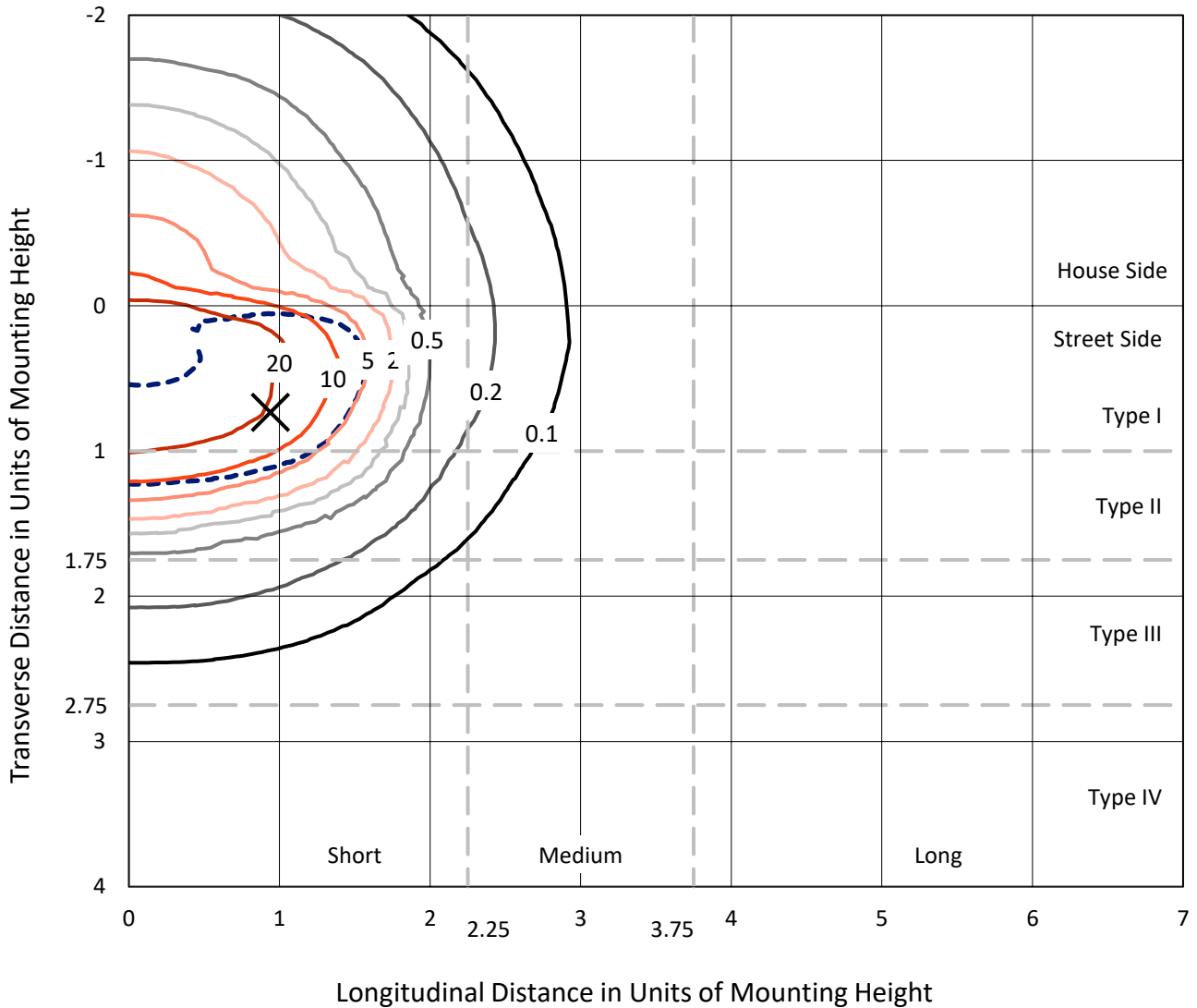
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

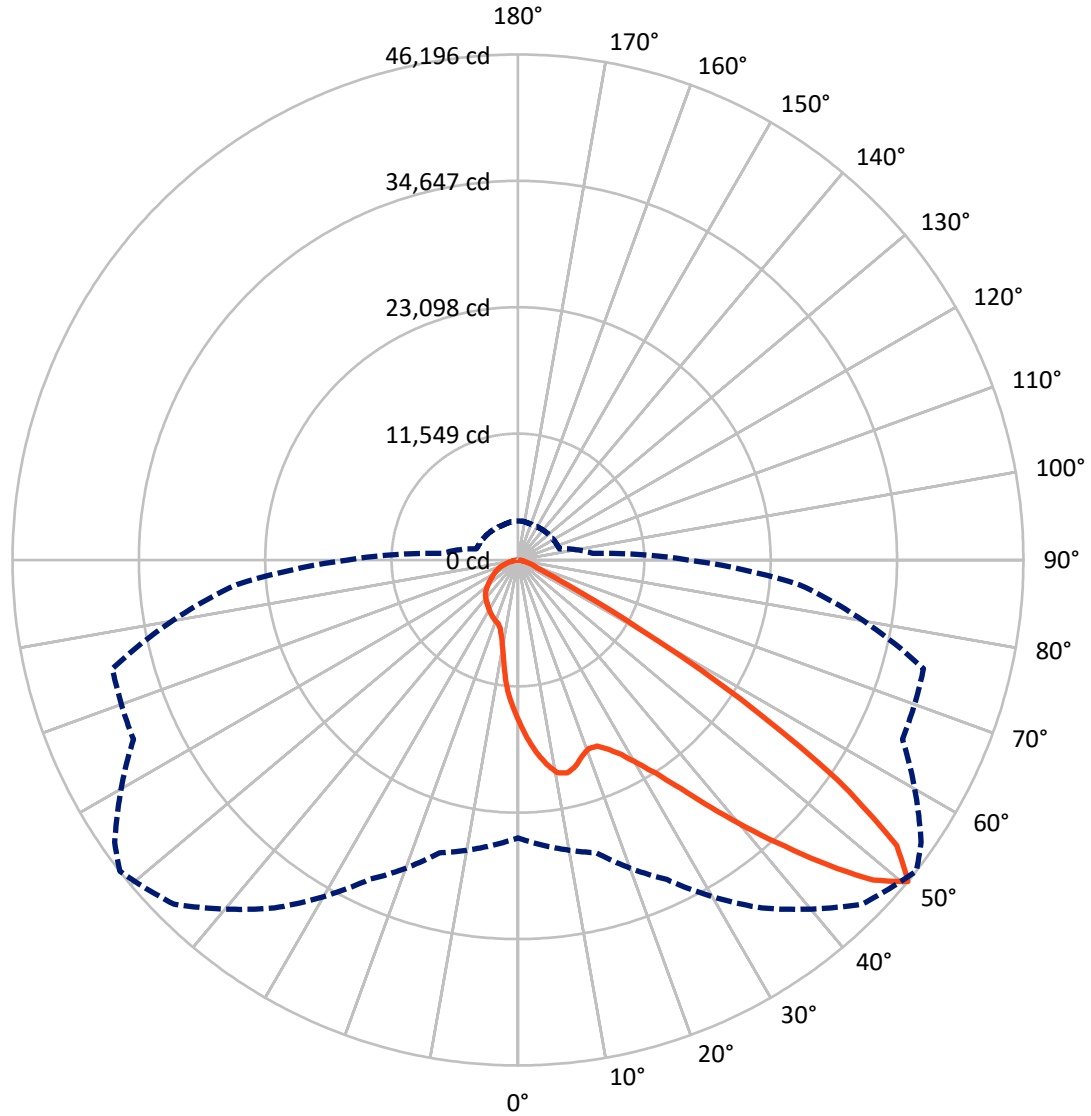
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.3 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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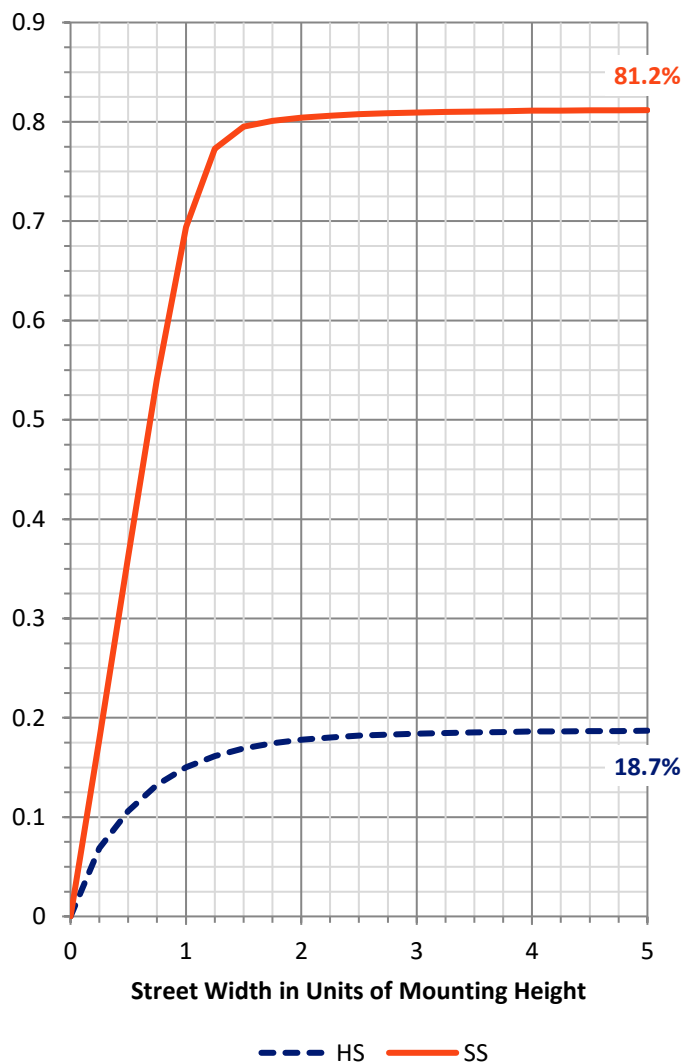
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9870.6	0.0	9870.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	42639.4	0.0	42639.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	52510.0	0.0	52510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1364.3	2.6
10°-20°	3656.6	7.0
20°-30°	6159.4	11.7
30°-40°	10335.9	19.7
40°-50°	15811.4	30.1
50°-60°	11527.8	22.0
60°-70°	2565.5	4.9
70°-80°	925.3	1.8
80°-90°	163.8	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°	52510.0	100.0
0°-180°	52510.0	100.0

Coefficient of Utilization



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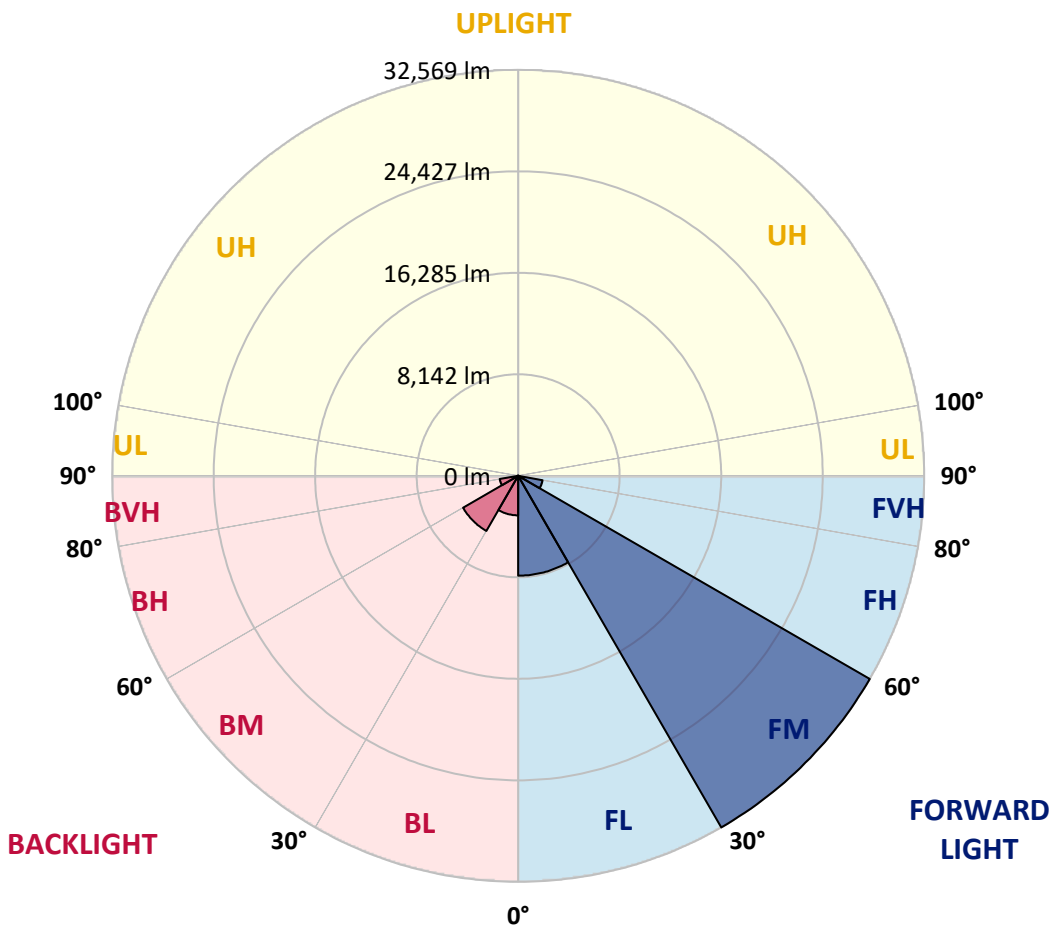
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8009.6	15.3			
FM (30°-60°)	32569.4	62.0			
FH (60°-80°)	1987.0	3.8			G2/5000
FVH (80°-90°)	73.4	0.1			G1/100
BL (0°-30°)	3170.6	6.0	B4/5000		
BM (30°-60°)	5105.8	9.7	B4/8500		
BH (60°-80°)	1503.8	2.9	B3/2500		G3/2500
BVH (80°-90°)	90.4	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°	14801.7	14801.7	14801.7	14801.7	14801.7	14801.7	14801.7	14801.7	14801.7	14801.7	14801.7
2.5°	17427.9	17092.5	17130.5	16890.0	16630.6	16554.6	16288.8	16035.7	15845.9	15440.8	15067.5
5°	19047.9	18946.7	18794.8	18605.0	18408.8	17927.8	17655.7	17339.3	16643.2	16016.7	15396.6
7.5°	19282.1	19263.1	19345.4	19345.4	19415.0	19231.5	18845.4	18623.9	17883.5	16864.7	15713.0
10°	17636.7	17693.7	18092.4	18611.3	19332.7	19832.6	19769.3	19712.4	18902.4	17510.2	16086.3
12.5°	16326.8	16200.2	16434.4	16877.4	17959.5	19168.2	19984.5	19990.8	19782.0	18541.7	16358.4
15°	15586.4	15675.0	15738.3	15947.1	16763.4	18162.0	19598.5	20022.5	20940.1	19269.4	16788.8
17.5°	16061.0	15763.6	15750.9	15801.6	16219.2	17269.7	18883.4	19611.1	21572.9	20206.0	17320.3
20°	16681.2	16674.9	16497.7	16434.4	16428.1	17364.6	18415.1	19402.3	21908.3	21421.0	17858.2
22.5°	17769.6	17769.6	17478.5	17339.3	17041.9	17807.6	18478.4	19149.2	22465.2	22256.3	18117.7
25°	19592.2	19294.7	18794.8	18453.1	18282.2	18554.3	19149.2	19750.4	22952.4	23142.3	18655.6
27.5°	21275.5	20807.2	20560.4	19971.9	19744.0	19585.8	20130.1	20737.6	23522.0	24521.8	18946.7
30°	23186.6	23104.3	22661.3	21902.0	21338.7	21047.6	21547.6	22148.8	24566.1	25933.0	19617.5
32.5°	26603.8	25857.1	25255.9	24325.7	23408.1	22787.9	23281.5	23680.2	26300.1	27407.5	20351.5
35°	30293.2	30052.7	29014.9	27337.9	25933.0	25376.1	25667.2	25964.7	28318.8	29660.4	21585.5
37.5°	33919.2	33590.2	32735.9	31324.7	29616.1	28483.3	28692.1	29040.2	30584.3	32697.9	23091.7
40°	36526.5	36121.5	35691.1	35482.3	33786.3	32235.9	32115.7	32204.3	33647.1	35545.6	24762.3
42.5°	36716.3	37216.2	37349.1	38190.8	37792.1	36520.1	35779.7	35798.7	36570.8	38361.6	26451.9
45°	36317.6	35855.7	36836.5	39133.7	40450.0	41044.8	39798.2	39639.9	38380.6	39994.3	27293.6
47.5°	32134.7	32261.2	33919.2	37551.6	41354.9	44012.7	43721.6	43196.4	39348.9	39937.4	27160.7
50°	25401.5	26167.2	27704.9	32229.6	38823.6	44481.0	46196.0	44981.0	38773.0	38368.0	25806.5
52.5°	16915.3	17231.7	18244.2	24085.2	31217.1	39760.2	43348.3	43626.7	38241.4	36311.3	24091.5
55°	7530.6	7505.3	8929.1	12580.5	19585.8	30255.2	35419.0	37115.0	36197.4	34216.7	22420.9
57.5°	3189.4	3297.0	3879.2	5435.9	9631.5	18256.9	23996.6	25483.7	27837.8	28097.3	17200.1
60°	2157.9	2170.6	2328.8	2721.1	4031.1	8574.7	12586.8	14371.4	16054.7	15940.8	9125.3
62.5°	1696.0	1740.3	1860.5	2018.7	2392.1	3891.9	5632.1	6625.6	6733.2	5663.8	3461.5
65°	1449.2	1455.5	1575.7	1708.6	1873.2	2265.5	2714.8	2765.4	2797.1	2695.8	2543.9
67.5°	1196.0	1208.7	1303.6	1455.5	1607.4	1733.9	1860.5	1923.8	2069.3	2354.1	2316.1
70°	949.2	968.2	1050.5	1177.0	1316.3	1392.2	1550.4	1607.4	1740.3	1961.7	2050.3
72.5°	721.4	727.7	797.4	886.0	1012.5	1088.5	1221.3	1284.6	1373.2	1563.1	1645.3
75°	518.9	537.9	588.5	632.8	651.8	702.4	829.0	898.6	1025.2	1107.4	1113.8
77.5°	272.1	284.8	297.4	297.4	360.7	455.6	537.9	575.9	664.5	727.7	696.1
80°	107.6	113.9	145.5	196.2	253.1	329.1	386.0	405.0	480.9	518.9	537.9
82.5°	63.3	69.6	94.9	139.2	183.5	234.1	278.4	297.4	348.1	392.3	405.0
85°	31.6	38.0	57.0	88.6	120.2	145.5	139.2	132.9	132.9	126.6	132.9
87.5°	12.7	12.7	19.0	19.0	19.0	25.3	31.6	31.6	31.6	38.0	38.0
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°	14801.7	14801.7	14801.7	14801.7	14801.7	14801.7	14801.7	14801.7	14801.7	14801.7	14801.7
2.5°	14820.7	14567.6	14333.4	13903.1	13434.8	13301.9	12757.7	12561.5	12422.3	12257.8	12207.1
5°	14896.6	14561.2	13808.2	12941.2	12251.4	11365.5	10783.3	10156.8	9701.2	9587.2	9555.6
7.5°	15054.8	14479.0	13181.7	11871.7	10460.5	9258.2	8340.6	7847.0	7410.3	7385.0	7340.7
10°	15232.0	14232.2	12498.2	10441.6	8638.0	7524.2	6973.7	6758.5	6651.0	6625.6	6613.0
12.5°	15377.6	14181.5	11732.5	9049.3	7347.1	6676.3	6511.7	6492.8	6537.0	6549.7	6575.0
15°	15440.8	13979.0	10808.6	7802.7	6543.4	6296.6	6366.2	6442.1	6473.8	6556.0	6492.8
17.5°	15561.1	13719.6	9669.5	6815.5	6094.1	6138.4	6258.6	6347.2	6397.8	6454.8	6372.5
20°	15624.4	13485.4	8600.0	6227.0	5935.9	6018.1	6182.7	6252.3	6315.6	6340.9	6245.9
22.5°	15567.4	13004.5	7657.1	5752.3	5784.0	5891.6	6037.1	6113.1	6075.1	5973.8	5916.9
25°	15415.5	12327.4	6676.3	5448.6	5568.8	5758.7	5872.6	5815.6	5746.0	5689.1	5670.1
27.5°	15409.2	11498.4	5967.5	5170.2	5385.3	5644.8	5606.8	5556.2	5587.8	5543.5	5492.9
30°	15440.8	10694.7	5385.3	5011.9	5252.4	5379.0	5423.3	5372.7	5410.6	5328.4	5353.7
32.5°	15276.3	9910.0	5005.6	4828.4	5094.2	5087.9	5233.4	5271.4	5182.8	5011.9	5037.3
35°	15345.9	9277.2	4682.9	4746.2	4917.0	4917.0	5030.9	4986.6	4752.5	4651.2	4676.6
37.5°	15826.9	8657.0	4524.7	4632.3	4746.2	4796.8	4758.8	4569.0	4512.0	4512.0	4524.7
40°	16282.5	8125.4	4429.8	4606.9	4588.0	4619.6	4341.2	4360.1	4360.1	4366.5	4334.8
42.5°	16687.5	7764.7	4353.8	4455.1	4486.7	4322.2	4151.3	4132.3	4176.6	4170.3	4145.0
45°	16833.1	7467.3	4246.2	4284.2	4309.5	4037.4	3955.1	3917.2	3967.8	3986.8	4012.1
47.5°	16276.2	7220.5	4126.0	4050.1	3999.4	3822.2	3714.7	3645.1	3708.3	3815.9	3841.2
50°	15561.1	6897.8	3936.2	3790.6	3683.0	3607.1	3531.1	3461.5	3505.8	3581.8	3562.8
52.5°	14504.3	6391.5	3695.7	3543.8	3360.3	3379.3	3309.7	3271.7	3297.0	3297.0	3278.0
55°	12998.2	5252.4	3290.7	3183.1	3031.2	3081.8	3094.5	3043.9	2993.2	3037.5	2999.6
57.5°	8872.2	3708.3	2936.3	2936.3	2784.4	2854.0	2847.7	2727.5	2607.2	2619.9	2594.6
60°	5132.2	2955.3	2708.5	2683.2	2525.0	2581.9	2594.6	2512.3	2328.8	2341.4	2316.1
62.5°	2917.3	2525.0	2366.8	2328.8	2297.1	2347.8	2347.8	2240.2	2082.0	2094.6	2069.3
65°	2480.7	2341.4	2113.6	2107.3	2094.6	2107.3	2056.7	1942.8	1803.5	1746.6	1752.9
67.5°	2252.8	2164.3	1942.8	1885.8	1847.8	1841.5	1746.6	1639.0	1575.7	1525.1	1518.8
70°	1974.4	1904.8	1740.3	1664.3	1626.4	1537.8	1442.8	1373.2	1284.6	1259.3	1284.6
72.5°	1563.1	1556.7	1493.5	1411.2	1328.9	1259.3	1177.0	1082.1	999.9	980.9	936.6
75°	1082.1	1094.8	1107.4	1094.8	1025.2	936.6	841.7	765.7	664.5	607.5	594.9
77.5°	708.8	727.7	746.7	721.4	677.1	594.9	531.6	436.6	360.7	316.4	310.1
80°	518.9	544.2	556.9	537.9	487.3	424.0	354.4	278.4	221.5	183.5	183.5
82.5°	398.7	424.0	436.6	405.0	354.4	303.8	253.1	196.2	151.9	120.2	113.9
85°	139.2	132.9	158.2	164.5	196.2	183.5	151.9	113.9	88.6	63.3	57.0
87.5°	38.0	38.0	44.3	44.3	38.0	31.6	31.6	31.6	25.3	19.0	19.0
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)