

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: P534327

Luminaire Tested: **GALN-SA9D-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41880 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

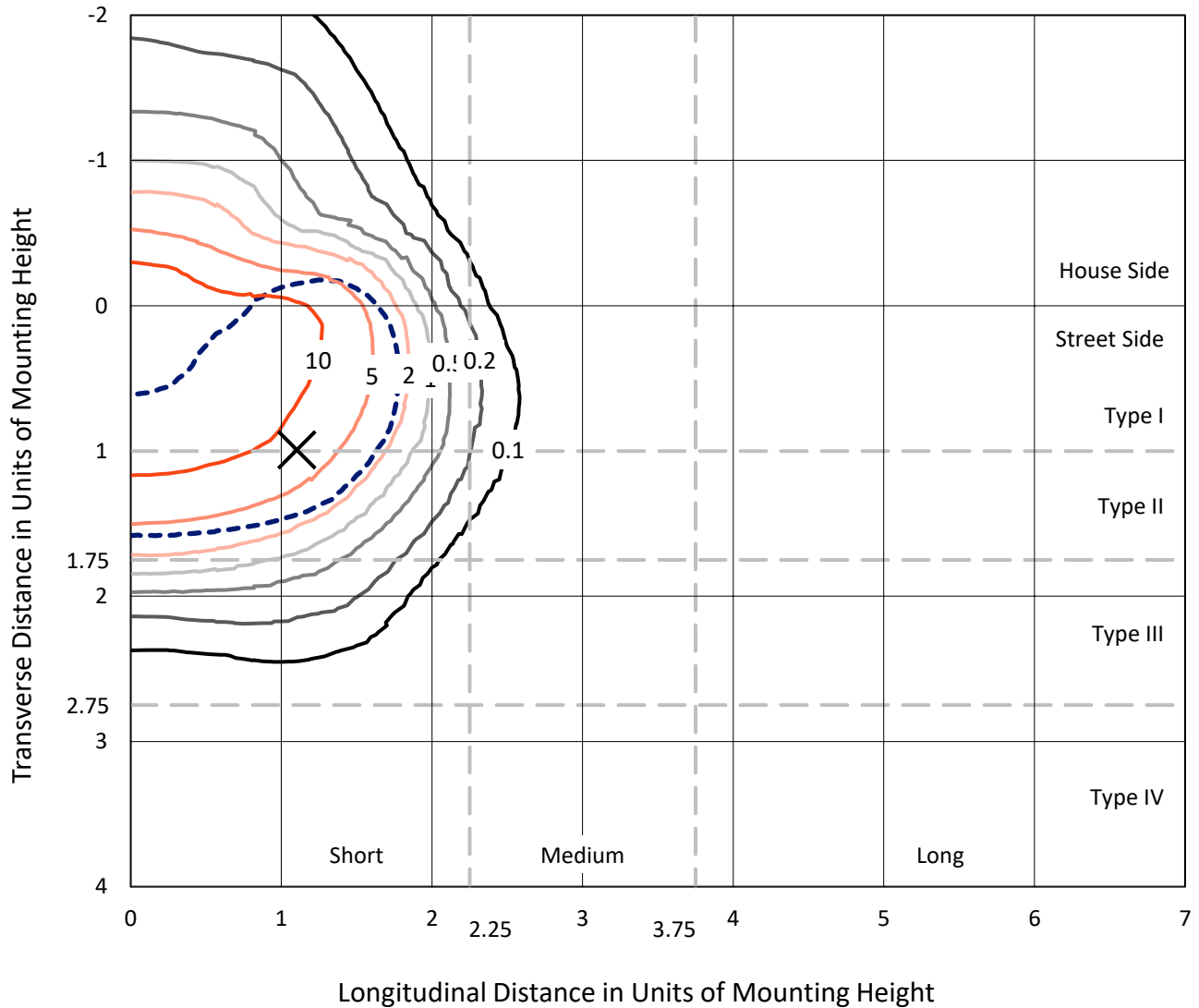
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

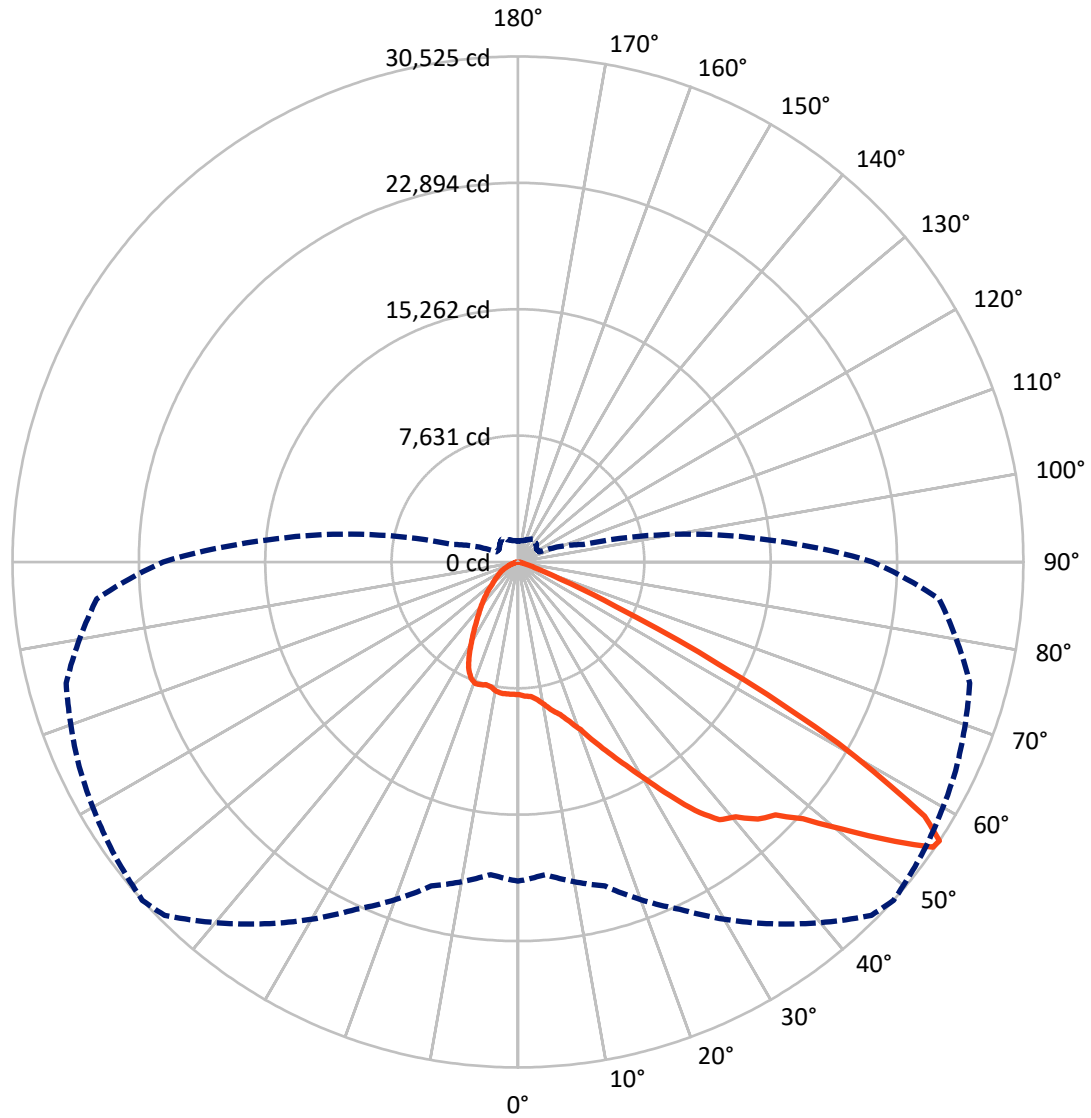
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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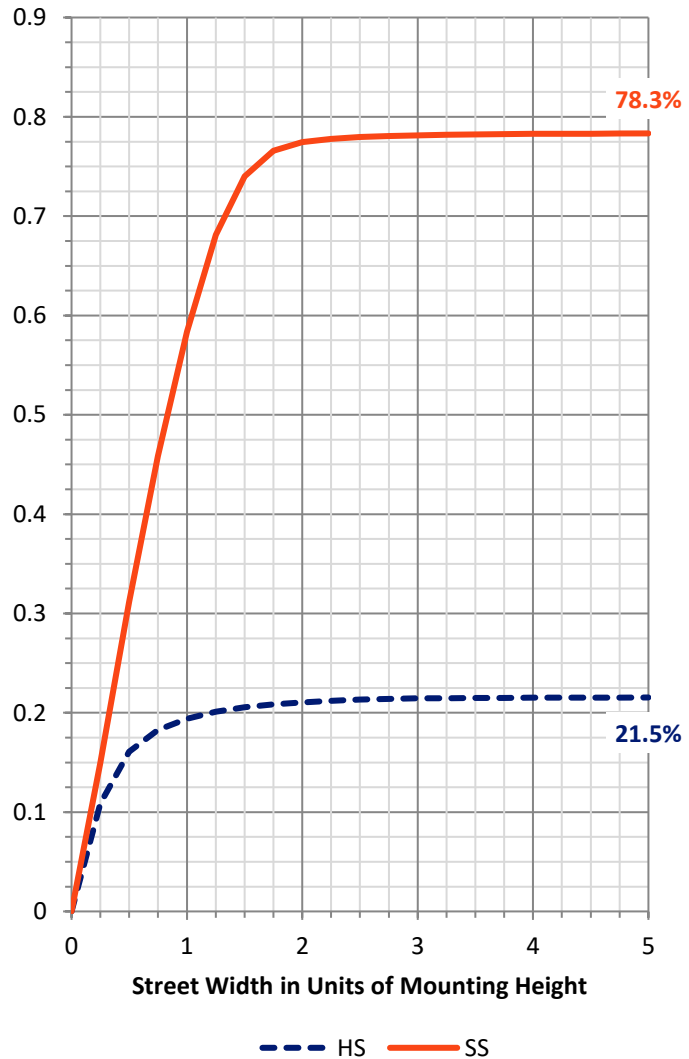
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9108.1	0.0	9108.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	32771.9	0.0	32771.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	41880.0	0.0	41880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	779.2	1.9
10°-20°	2490.2	5.9
20°-30°	4516.7	10.8
30°-40°	7094.8	16.9
40°-50°	10350.1	24.7
50°-60°	12469.8	29.8
60°-70°	3651.1	8.7
70°-80°	463.2	1.1
80°-90°	64.9	0.2
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°	41880.0	100.0
0°-180°	41880.0	100.0

Coefficient of Utilization



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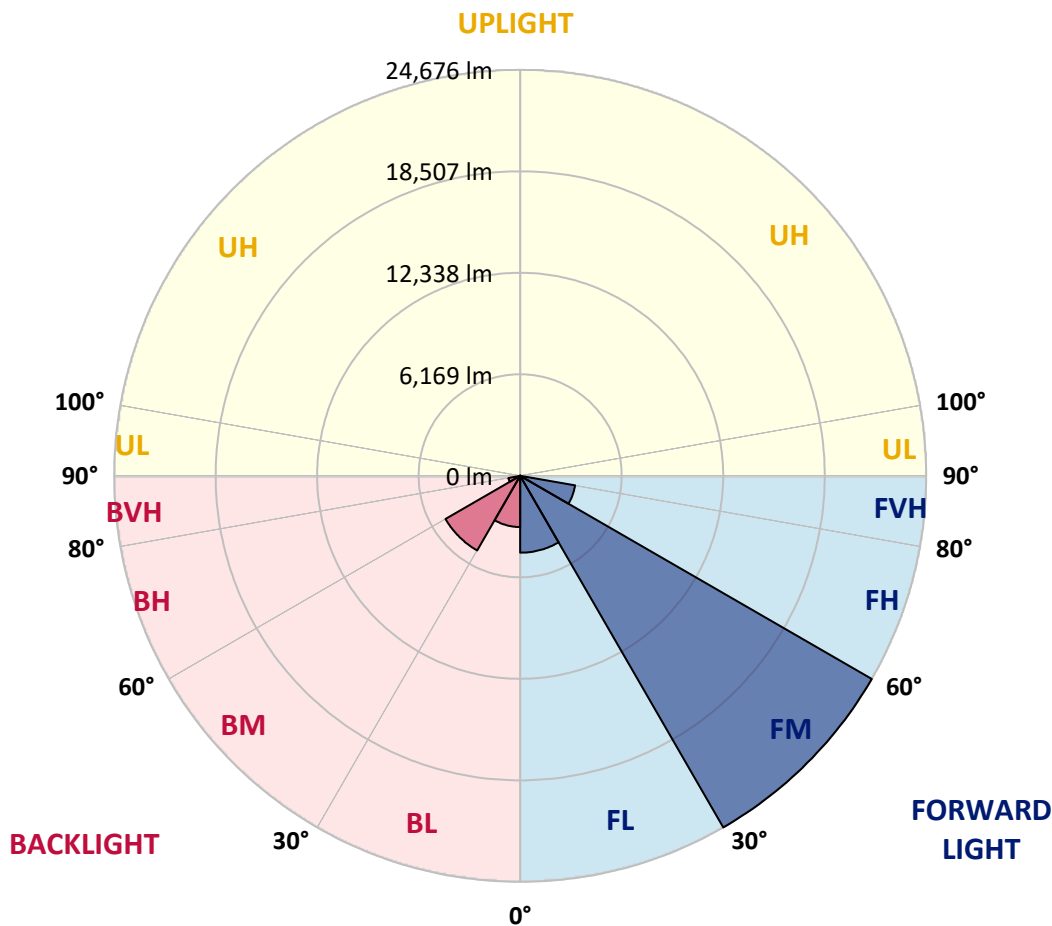
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4673.0	11.2			
FM (30°-60°)	24675.8	58.9			
FH (60°-80°)	3390.5	8.1			G2/5000
FVH (80°-90°)	32.6	0.1			G1/100
BL (0°-30°)	3113.1	7.4	B4/5000		
BM (30°-60°)	5238.9	12.5	B4/8500		
BH (60°-80°)	723.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	32.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	7999.1	7999.1	7999.1	7999.1	7999.1	7999.1	7999.1	7999.1	7999.1	7999.1	7999.1
2.5°	8144.0	8105.9	8105.9	8044.9	8113.5	8083.0	8105.9	8029.6	8105.9	7991.5	8083.0
5°	8182.1	8189.7	8159.2	8197.4	8197.4	8243.1	8166.9	8235.5	8273.6	8189.7	8151.6
7.5°	8380.4	8395.6	8388.0	8357.5	8418.5	8410.9	8403.2	8349.9	8365.1	8334.6	8288.9
10°	8769.3	8761.6	8799.8	8723.5	8677.8	8731.1	8746.4	8662.5	8601.5	8578.6	8433.7
12.5°	9333.6	9242.0	9188.7	9112.4	9135.3	9059.0	9196.3	9051.4	9020.9	8883.7	8738.8
15°	9791.1	9775.8	9783.5	9661.4	9524.2	9554.7	9554.7	9478.4	9432.7	9264.9	9059.0
17.5°	10729.0	10408.7	10477.4	10324.9	10210.5	10202.9	10134.2	10149.5	10027.5	9676.7	9364.1
20°	11461.1	11323.8	11217.0	10957.8	10782.4	10835.8	10805.3	10729.0	10690.9	10233.4	9791.1
22.5°	12116.8	12162.6	11987.2	11918.6	11674.6	11697.4	11758.4	11689.8	11400.0	10927.3	10271.5
25°	13039.5	12986.1	12749.8	12665.9	12437.1	12521.0	12757.4	12704.0	12521.0	11666.9	10645.1
27.5°	14130.0	13946.9	13992.7	13611.4	13390.3	13626.7	13908.8	14175.7	13657.2	12536.2	11087.4
30°	14900.1	14709.5	14694.2	14679.0	14625.6	14900.1	15228.0	15472.0	15052.6	13405.5	11819.4
32.5°	15281.4	15327.2	15456.8	15411.0	15876.2	16440.5	16783.6	17134.4	16608.2	14823.9	12787.9
35°	16295.6	16005.8	16295.6	16326.1	16806.5	18003.7	18438.3	19277.1	19147.5	16829.4	13969.8
37.5°	16890.4	16867.5	16905.6	17195.4	17660.5	19139.9	19757.5	20405.7	20161.7	18034.2	15441.5
40°	17874.1	17935.1	17927.4	18148.6	18659.5	19993.9	20245.6	20771.7	20794.6	19704.2	17607.2
42.5°	19452.5	19208.5	19048.4	19277.1	19993.9	20733.6	21236.9	21130.1	21885.0	21732.5	20390.5
45°	20870.9	21015.7	20779.4	21160.6	21419.9	21816.4	21801.2	22029.9	22990.7	23715.2	22487.5
47.5°	22197.7	22289.2	22403.6	22662.8	23227.1	23288.1	23158.5	23059.4	24386.2	25133.5	24111.7
50°	22990.7	23074.6	23608.4	24073.5	25125.9	25263.1	25339.4	25087.7	25987.5	26071.4	25644.4
52.5°	22777.2	22868.7	23616.0	25148.7	26826.3	28084.5	27855.8	27428.7	27375.4	27703.3	27062.7
55°	20886.1	20802.2	21831.7	24218.4	27360.1	30379.8	30410.3	29960.4	29098.7	28877.6	26849.2
56°	19277.1	18949.2	20260.8	23143.2	26673.8	30181.5	30524.7	30044.3	29236.0	28244.7	25530.0
57.5°	15792.3	16105.0	17408.9	19795.7	24302.3	28755.6	28953.8	28839.5	28229.4	26567.1	22464.6
60°	8708.3	9257.3	10408.7	13329.3	17302.1	22068.1	22228.2	23158.5	23272.9	20344.7	15456.8
62.5°	3698.3	3637.3	4834.5	6984.9	9852.1	13321.7	13619.1	14572.2	14747.6	11727.9	7755.1
65°	1502.2	1586.1	2188.5	3515.3	5208.2	6069.9	6489.3	6801.9	7381.4	4842.2	2859.5
67.5°	991.3	983.7	1288.7	2005.5	2806.2	2707.0	2707.0	2859.5	2646.0	1975.0	1235.3
70°	709.2	732.0	922.7	1387.8	1746.2	1296.3	1242.9	1189.6	1349.7	1304.0	998.9
72.5°	465.2	495.7	617.7	831.2	907.4	709.2	709.2	854.1	1113.3	1052.3	815.9
75°	305.0	312.6	381.3	480.4	449.9	366.0	404.1	571.9	808.3	777.8	579.5
77.5°	205.9	213.5	259.3	312.6	251.6	205.9	221.1	289.8	396.5	396.5	305.0
80°	76.3	83.9	106.8	99.1	114.4	144.9	160.1	198.3	236.4	236.4	205.9
82.5°	0.0	7.6	22.9	53.4	83.9	114.4	129.6	152.5	175.4	198.3	190.6
85°	0.0	7.6	22.9	38.1	61.0	68.6	76.3	53.4	45.8	45.8	38.1
87.5°	0.0	0.0	7.6	7.6	7.6	7.6	7.6	7.6	15.3	7.6	7.6
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°	7999.1	7999.1	7999.1	7999.1	7999.1	7999.1	7999.1	7999.1	7999.1	7999.1	7999.1
2.5°	7999.1	7991.5	7991.5	7968.6	8014.3	7991.5	8006.7	7999.1	7900.0	7976.2	7922.8
5°	8083.0	8136.4	8052.5	8037.2	7976.2	7999.1	7999.1	7922.8	7991.5	7983.8	7968.6
7.5°	8296.5	8205.0	8113.5	8022.0	8006.7	7983.8	7900.0	7869.5	7922.8	7861.8	7953.3
10°	8388.0	8403.2	8266.0	8144.0	8029.6	7869.5	7755.1	7686.5	7602.6	7694.1	7747.5
12.5°	8807.4	8654.9	8418.5	8227.9	7839.0	7678.8	7564.4	7533.9	7678.8	7709.3	7656.0
15°	8952.3	8929.4	8624.4	8197.4	7793.2	7602.6	7625.5	7564.4	7579.7	7503.4	7518.7
17.5°	9249.7	8990.4	8632.0	8098.2	7785.6	7739.8	7602.6	7358.6	7221.3	7160.3	7213.7
20°	9577.6	9325.9	8807.4	8136.4	7854.2	7732.2	7282.3	6984.9	6702.8	6550.3	6557.9
22.5°	9867.3	9554.7	8731.1	8151.6	7915.2	7411.9	6870.5	6283.4	5932.6	5696.2	5703.8
25°	10218.1	9775.8	8761.6	8182.1	7755.1	6901.0	6123.2	5551.3	5131.9	4971.8	5025.2
27.5°	10416.4	9913.1	8929.4	8250.7	7335.7	6176.6	5337.8	4804.0	4560.0	4483.8	4476.1
30°	11011.2	10218.1	9135.3	8113.5	6634.1	5398.8	4621.0	4293.1	4056.7	3988.1	4003.4
32.5°	11895.7	10774.8	9402.2	7755.1	5917.3	4704.9	4155.9	3911.9	3690.7	3561.1	3545.8
35°	12635.4	11727.9	9684.3	7198.4	5086.2	4171.1	3828.0	3523.0	3187.4	3042.6	3004.4
37.5°	14046.1	12803.1	9623.3	6359.6	4293.1	3774.6	3477.2	3103.6	2813.8	2615.5	2592.7
40°	15921.9	14061.3	9325.9	5337.8	3706.0	3423.8	3103.6	2745.2	2386.8	2219.0	2203.8
42.5°	18202.0	15601.7	8784.5	4300.8	3118.8	3073.1	2783.3	2371.5	2051.2	1929.2	1936.9
45°	20054.9	16920.9	8235.5	3454.3	2684.2	2729.9	2478.3	2089.4	1868.2	1769.1	1769.1
47.5°	21702.0	17813.1	7640.7	2851.9	2280.0	2386.8	2165.6	1936.9	1746.2	1670.0	1654.7
50°	23288.1	18720.5	7045.9	2310.5	1944.5	2051.2	2028.4	1845.4	1692.9	1601.3	1609.0
52.5°	24279.4	18865.4	6291.0	1891.1	1700.5	1822.5	1898.7	1731.0	1563.2	1509.8	1494.6
55°	23067.0	16997.1	4880.3	1555.6	1441.2	1601.3	1746.2	1555.6	1426.0	1334.5	1326.8
56°	21435.1	15197.5	4079.6	1433.6	1365.0	1540.3	1692.9	1487.0	1342.1	1288.7	1250.6
57.5°	18148.6	12437.1	3012.1	1273.5	1265.8	1433.6	1609.0	1418.3	1250.6	1204.8	1204.8
60°	11316.2	7000.2	1822.5	1067.6	1098.1	1273.5	1448.8	1265.8	1113.3	1113.3	1136.2
62.5°	5154.8	2912.9	1105.7	907.4	945.6	1098.1	1288.7	1143.8	1059.9	1143.8	1159.1
65°	1753.9	1258.2	800.7	724.4	747.3	907.4	1105.7	1159.1	1151.4	1204.8	1235.3
67.5°	983.7	808.3	671.0	602.4	587.2	671.0	907.4	1159.1	1113.3	1090.4	1105.7
70°	831.2	686.3	594.8	533.8	510.9	541.4	701.5	876.9	785.4	762.5	747.3
72.5°	671.0	571.9	518.5	480.4	411.8	350.8	320.3	335.5	373.6	396.5	434.7
75°	472.8	434.7	434.7	388.9	297.4	221.1	175.4	144.9	99.1	68.6	76.3
77.5°	266.9	266.9	274.5	236.4	190.6	144.9	106.8	76.3	38.1	15.3	7.6
80°	183.0	198.3	213.5	190.6	160.1	129.6	91.5	53.4	22.9	0.0	0.0
82.5°	183.0	205.9	221.1	190.6	160.1	122.0	91.5	53.4	22.9	7.6	0.0
85°	38.1	45.8	53.4	61.0	91.5	91.5	68.6	45.8	22.9	7.6	0.0
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	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)