

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643836

Luminaire Tested: GWS-SA6F-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44023.3 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

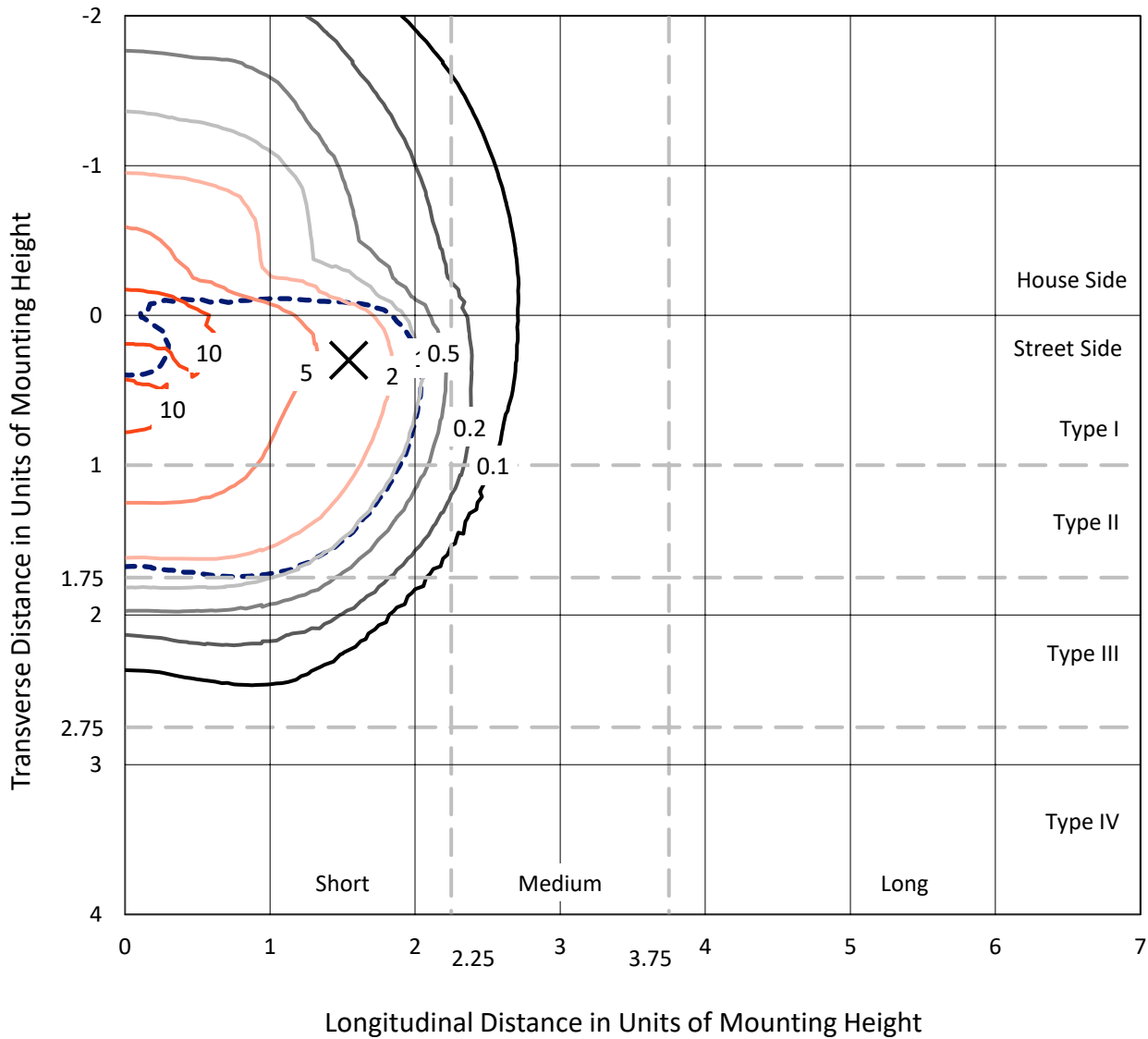
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

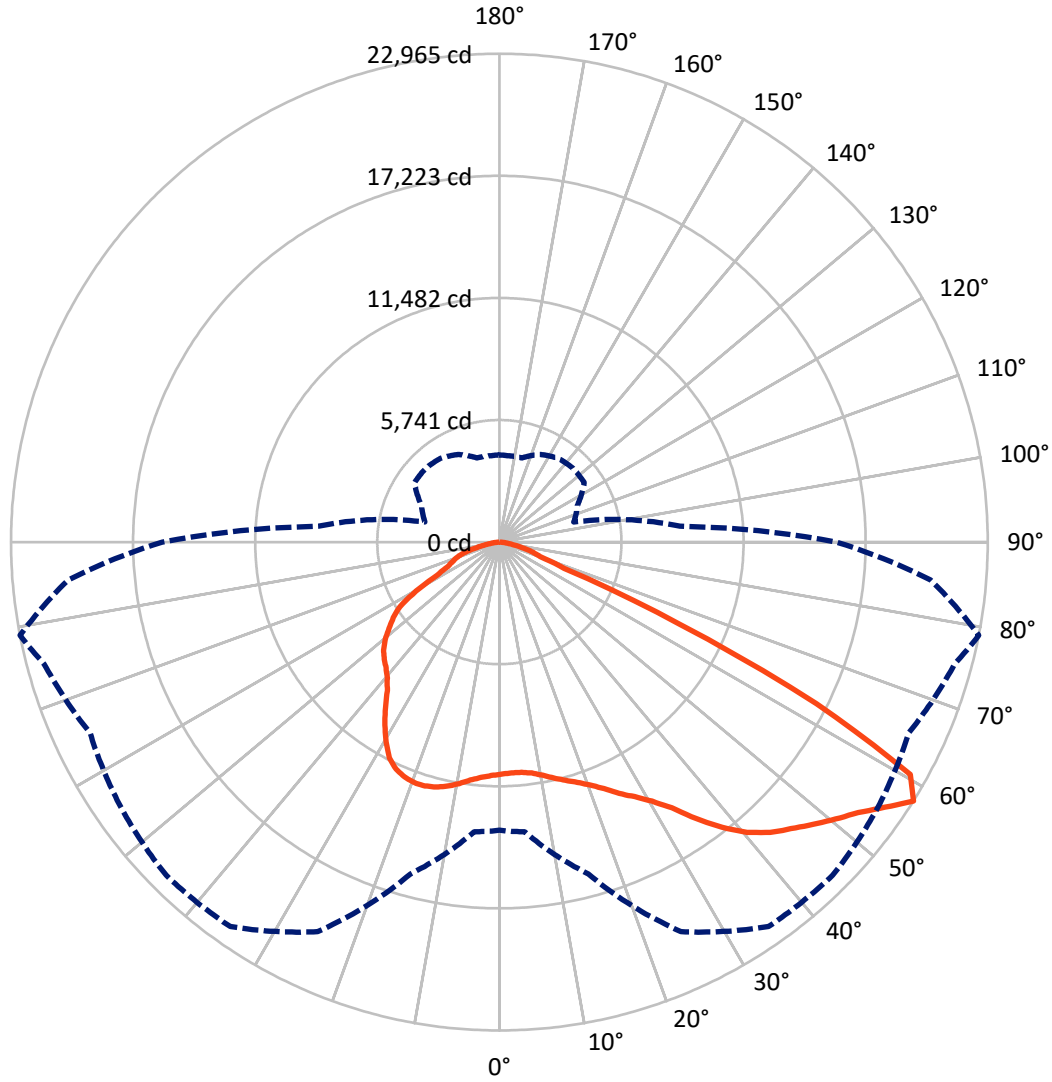
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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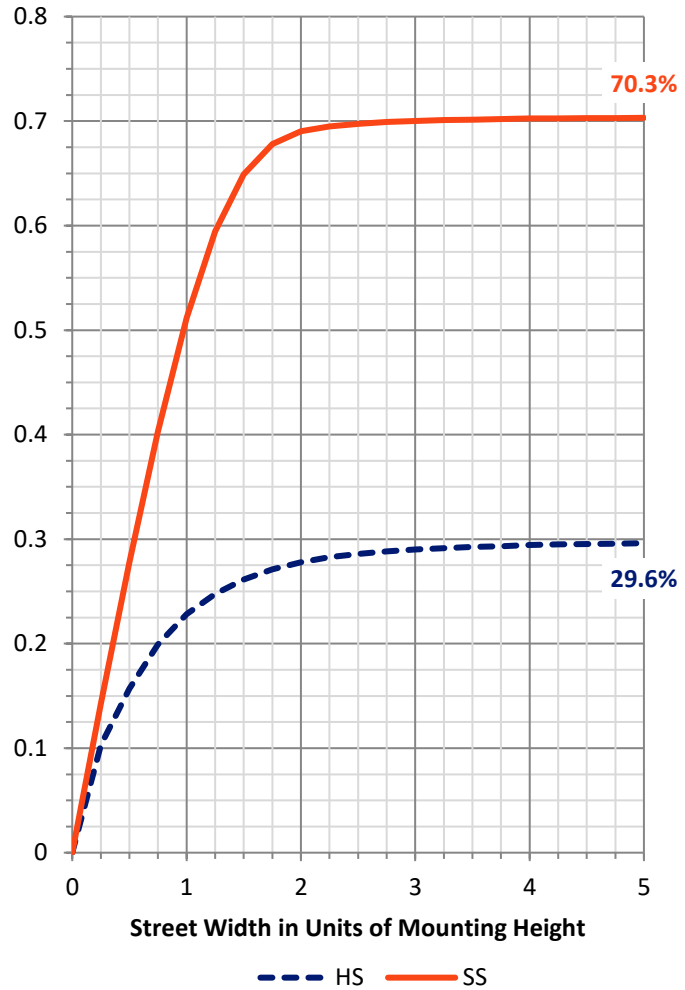
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13086.1	0.0	13086.1
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	30937.2	0.0	30937.2
	% Fixture	70.3	0.0	70.3
Total	Lumens	44023.3	0.0	44023.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1010.4	2.3
10°-20°	2807.8	6.4
20°-30°	4759.3	10.8
30°-40°	7284.8	16.5
40°-50°	9713.5	22.1
50°-60°	11218.4	25.5
60°-70°	5829.5	13.2
70°-80°	1239.2	2.8
80°-90°	160.5	0.4
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°	44023.3	100.0
0°-180°	44023.3	100.0

Coefficient of Utilization



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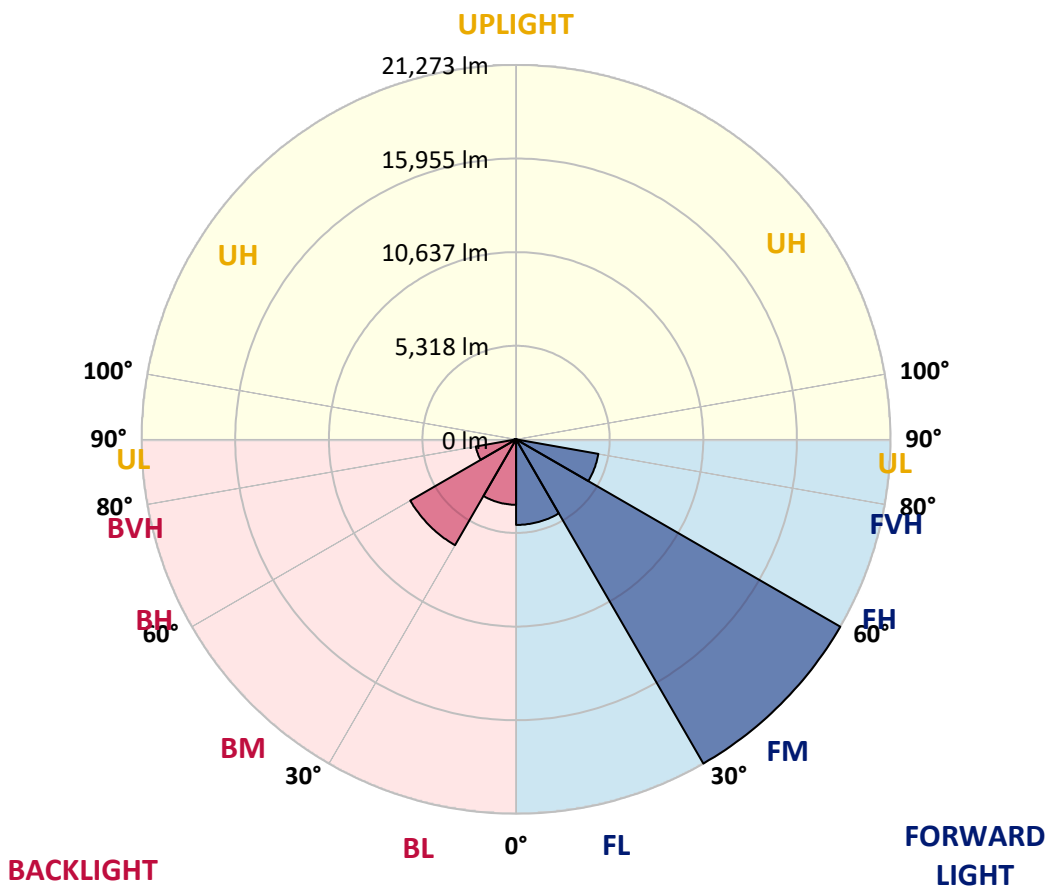
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4861.2	11.0			
FM (30°-60°)	21273.3	48.3			
FH (60°-80°)	4746.8	10.8			G2/5000
FVH (80°-90°)	56.0	0.1			G1/100
BL (0°-30°)	3716.3	8.4	B4/5000		
BM (30°-60°)	6943.4	15.8	B4/8500		
BH (60°-80°)	2321.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	104.6	0.2			G2/225
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°	55°	65°	75°	79°	85°
0°	10910.0	10910.0	10910.0	10910.0	10910.0	10910.0	10910.0	10910.0	10910.0	10910.0	10910.0
2.5°	10413.3	10391.7	10398.9	10427.7	10535.6	10614.8	10697.6	10773.2	10845.2	10866.8	10884.8
5°	10042.5	10002.9	10013.7	10060.5	10186.5	10319.7	10467.3	10647.2	10820.0	10877.6	10953.2
7.5°	9779.8	9772.6	9790.6	9862.5	9995.7	10121.7	10312.5	10568.0	10866.8	10964.0	11097.2
10°	9430.6	9416.2	9488.2	9635.8	9855.3	10056.9	10283.7	10586.0	11003.6	11147.6	11352.7
12.5°	9153.5	9146.3	9221.8	9427.0	9707.8	10028.1	10341.3	10679.6	11187.2	11385.1	11637.1
15°	9315.4	9283.0	9286.6	9430.6	9682.6	10060.5	10485.3	10848.8	11370.7	11622.7	11946.6
17.5°	9787.0	9729.4	9686.2	9711.4	9855.3	10247.7	10704.8	11075.6	11583.1	11878.2	12274.2
20°	10438.5	10406.1	10287.3	10208.1	10240.5	10586.0	11050.4	11395.9	11860.3	12191.4	12616.1
22.5°	11313.1	11233.9	11072.0	10946.0	10848.8	11118.8	11547.1	11845.9	12245.4	12590.9	13033.7
25°	12396.6	12281.4	12025.8	11827.9	11619.1	11896.2	12277.8	12504.6	12774.5	13094.9	13516.0
27.5°	13501.6	13404.4	13120.1	12853.7	12594.5	12767.3	13220.9	13350.4	13321.6	13555.6	13915.5
30°	14678.6	14556.3	14286.3	13998.3	13663.6	13775.2	14181.9	14246.7	13940.7	14135.1	14379.9
32.5°	15920.5	15801.7	15567.7	15233.0	14855.0	14898.2	15009.8	15071.0	14779.4	14891.0	15078.2
35°	17183.9	17072.3	16834.7	16503.6	16226.4	15963.6	15682.9	15927.7	15758.5	15974.4	15960.0
37.5°	18339.3	18227.7	18080.1	17824.6	17349.4	16831.1	16183.2	16485.6	16748.3	17021.9	16975.1
40°	19120.4	19044.8	19080.8	19041.2	18429.3	17403.4	16428.0	16759.1	17475.4	17943.4	17918.2
42.5°	19793.5	19717.9	19926.7	20077.8	19357.9	17932.6	16546.8	16863.5	17939.8	18670.4	18634.5
45°	20092.2	20070.6	20416.2	20894.9	20207.4	18494.1	16852.7	17079.5	18292.5	19228.4	19091.6
47.5°	19735.9	19811.5	20491.8	21301.7	20912.9	19160.0	17479.0	17536.6	18753.2	19833.1	19447.9
50°	19026.8	19192.4	20110.2	21312.5	21427.6	19912.3	18346.5	18202.5	19372.3	20477.4	19635.1
52.5°	17993.7	18166.5	19663.9	21229.7	21722.8	20783.3	19501.9	19296.8	20153.4	21121.7	19667.5
55°	15621.7	15855.7	18641.7	21042.5	22010.8	21575.2	20804.9	20387.4	21161.3	22007.2	19987.9
57.5°	13552.0	13674.4	16150.8	20211.0	22068.3	22158.3	21733.6	21236.9	22161.9	22964.6	20347.8
60°	9945.3	9974.1	12202.2	16723.1	20301.0	21820.0	21658.0	20920.1	21686.8	22197.9	18699.2
62.5°	5618.8	5622.4	7400.5	11162.0	15164.6	17785.0	17885.8	17234.3	16590.0	16741.1	13015.7
65°	2109.3	2307.3	3379.9	5485.6	8743.1	10499.7	10917.2	11068.4	9995.7	9329.8	6979.4
67.5°	1411.0	1457.8	1972.5	2822.0	3891.0	4492.1	5024.9	5039.3	3685.9	3286.3	2750.0
70°	1076.2	1123.0	1551.4	2019.3	1972.5	1821.3	1968.9	1914.9	1979.7	2033.7	2091.3
72.5°	802.7	849.5	1202.2	1425.4	1184.2	1166.2	1321.0	1468.6	1605.4	1663.0	1752.9
75°	532.7	568.7	809.9	763.1	655.1	773.9	964.7	1112.2	1191.4	1259.8	1328.2
77.5°	338.4	363.5	431.9	349.1	363.5	453.5	561.5	694.7	770.3	838.7	874.7
80°	154.8	151.2	147.6	165.6	205.2	266.4	338.4	417.5	475.1	503.9	525.5
82.5°	61.2	68.4	75.6	90.0	111.6	144.0	190.8	244.8	291.6	298.8	316.8
85°	25.2	28.8	32.4	39.6	50.4	64.8	79.2	111.6	140.4	151.2	162.0
87.5°	0.0	0.0	0.0	0.0	3.6	7.2	10.8	18.0	32.4	36.0	39.6
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°	10910.0	10910.0	10910.0	10910.0	10910.0	10910.0	10910.0	10910.0	10910.0	10910.0	10910.0
2.5°	10982.0	10935.2	11014.4	11068.4	11118.8	11064.8	11046.8	11000.0	10992.8	10992.8	11018.0
5°	11082.8	11050.4	11133.2	11165.6	11162.0	11043.2	10971.2	10877.6	10830.8	10830.8	10838.0
7.5°	11262.7	11244.7	11291.5	11241.1	11126.0	10884.8	10647.2	10449.3	10316.1	10247.7	10269.3
10°	11561.5	11539.9	11500.3	11313.1	10982.0	10481.7	9995.7	9635.8	9419.8	9297.4	9304.6
12.5°	11853.1	11817.1	11676.7	11262.7	10582.4	9787.0	9149.9	8746.7	8509.1	8365.2	8332.8
15°	12173.4	12079.8	11777.5	11003.6	9930.9	8937.5	8271.6	7836.0	7580.5	7494.1	7490.5
17.5°	12479.4	12313.8	11766.7	10542.8	9149.9	8048.4	7378.9	7109.0	7065.8	7105.4	7116.2
20°	12788.9	12522.6	11647.9	9905.7	8221.2	7162.9	6817.4	6929.0	7091.0	7198.9	7224.1
22.5°	13109.3	12695.3	11377.9	9085.1	7242.1	6565.4	6709.4	6954.2	7155.7	7299.7	7314.1
25°	13469.2	12857.3	10974.8	8080.8	6457.4	6399.9	6684.2	6943.4	7159.3	7324.9	7353.7
27.5°	13674.4	12860.9	10409.7	7047.8	6097.5	6335.1	6623.0	6867.8	7083.8	7263.7	7296.1
30°	13876.0	12763.7	9513.4	6209.1	5993.1	6259.5	6518.6	6745.4	6950.6	7126.9	7166.5
32.5°	14160.3	12673.7	8480.3	5726.8	5931.9	6187.5	6399.9	6601.4	6759.8	6839.0	6860.6
35°	14513.1	12558.5	7382.5	5518.0	5892.3	6129.9	6317.1	6425.1	6219.9	6176.7	6223.5
37.5°	15006.2	12450.6	6288.3	5428.0	5867.1	6108.3	6273.9	5996.7	5744.8	5644.0	5680.0
40°	15538.9	12389.4	5546.8	5356.0	5877.9	6129.9	6093.9	5683.6	5320.0	5107.6	5100.4
42.5°	15992.4	12295.8	5071.7	5309.2	5906.7	6212.7	5849.1	5406.4	4866.5	4740.5	4744.1
45°	16298.4	12058.2	4819.7	5258.8	5931.9	6230.7	5734.0	5024.9	4639.7	4560.5	4556.9
47.5°	16424.4	11626.3	4657.7	5179.6	5928.3	6083.1	5500.0	4866.5	4481.3	4459.7	4474.1
50°	16341.6	10917.2	4492.1	5024.9	5841.9	5928.3	5230.0	4726.1	4373.4	4492.1	4578.5
52.5°	16035.6	9999.3	4294.2	4812.5	5687.2	5752.0	5093.2	4639.7	4294.2	4452.5	4520.9
55°	15956.4	9254.2	4042.2	4535.3	5456.8	5438.8	4949.3	4596.5	4240.2	4179.0	4189.8
57.5°	15852.1	8527.1	3624.7	4038.6	4873.7	4902.5	4812.5	4546.1	4099.8	4081.8	4099.8
60°	13771.6	6536.6	3232.3	3484.3	4002.6	4157.4	4657.7	4452.5	3873.0	3797.4	3793.8
62.5°	8995.1	3959.4	2876.0	3038.0	3261.1	3441.1	4247.4	4182.6	3624.7	3577.9	3610.3
65°	4837.7	2822.0	2616.8	2714.0	2836.4	2973.2	3520.3	3725.5	3275.5	3109.9	3113.5
67.5°	2472.8	2400.8	2422.4	2490.8	2584.4	2652.8	2840.0	3020.0	2793.2	2652.8	2649.2
70°	2116.5	2174.1	2206.5	2246.1	2307.3	2296.5	2314.5	2346.9	2328.9	2260.5	2256.9
72.5°	1803.3	1893.3	1900.5	1907.7	1929.3	1878.9	1846.5	1792.5	1796.1	1806.9	1810.5
75°	1371.4	1457.8	1479.4	1468.6	1490.2	1425.4	1382.2	1328.2	1263.4	1252.6	1259.8
77.5°	892.7	961.1	993.5	986.3	997.1	946.7	925.1	867.5	791.9	763.1	763.1
80°	539.9	579.5	604.7	611.9	622.7	586.7	550.7	500.3	467.9	435.5	435.5
82.5°	327.6	352.7	370.7	370.7	381.5	341.9	313.2	277.2	262.8	234.0	234.0
85°	165.6	183.6	190.8	187.2	180.0	147.6	136.8	118.8	111.6	97.2	97.2
87.5°	39.6	50.4	50.4	36.0	36.0	18.0	10.8	3.6	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)