

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: P643010

Luminaire Tested: GWS-SA6E-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-722-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20680.6 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

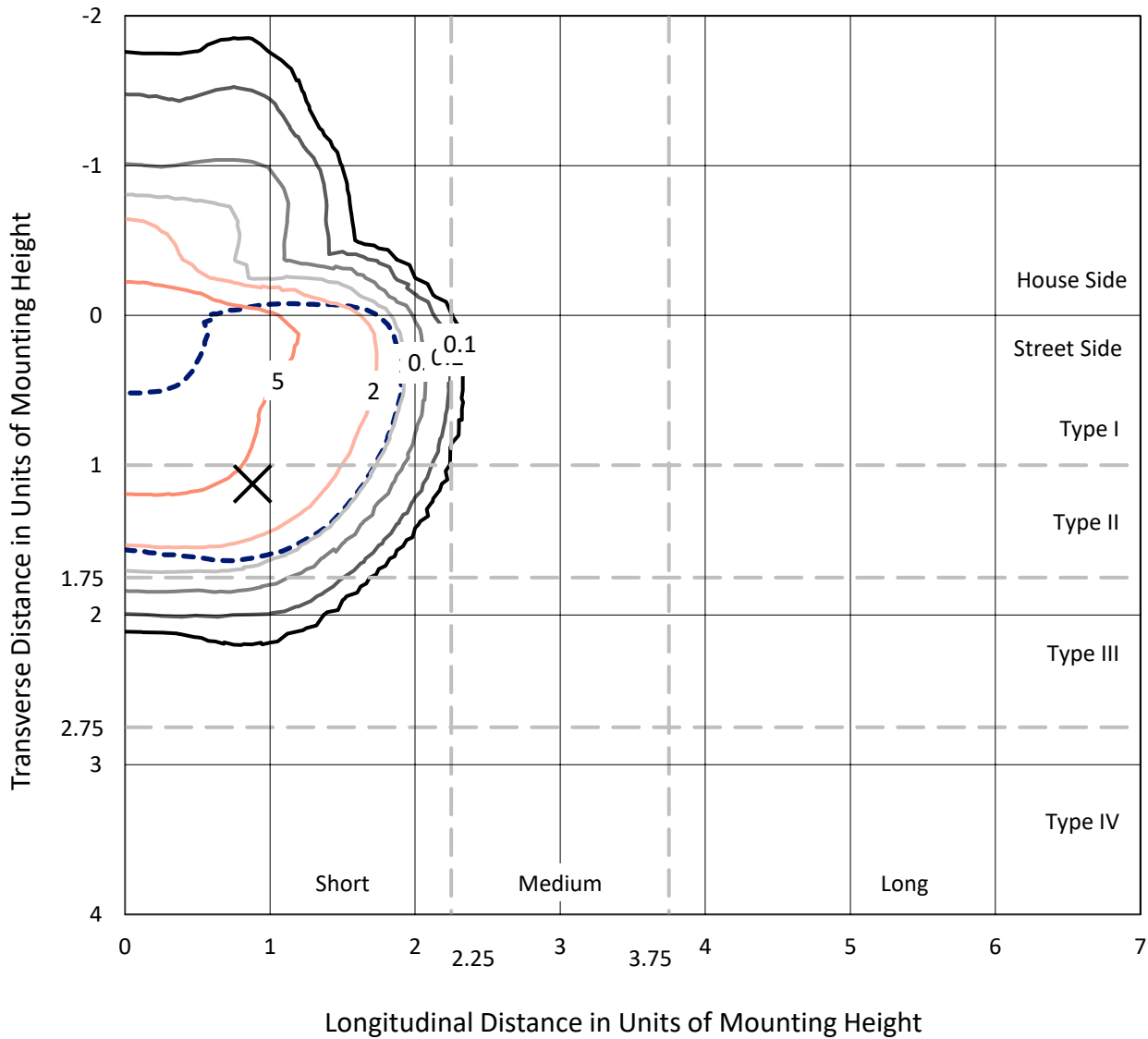
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

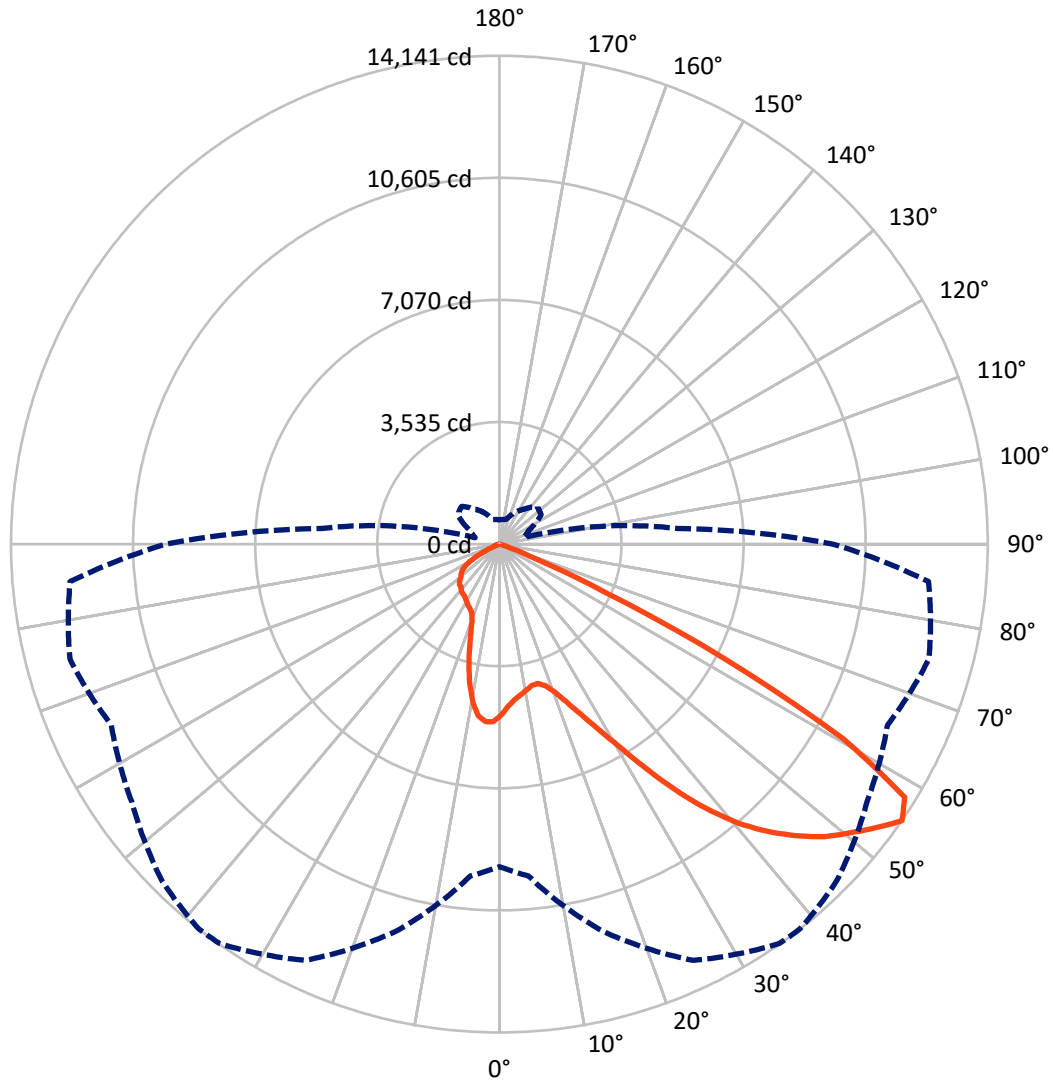
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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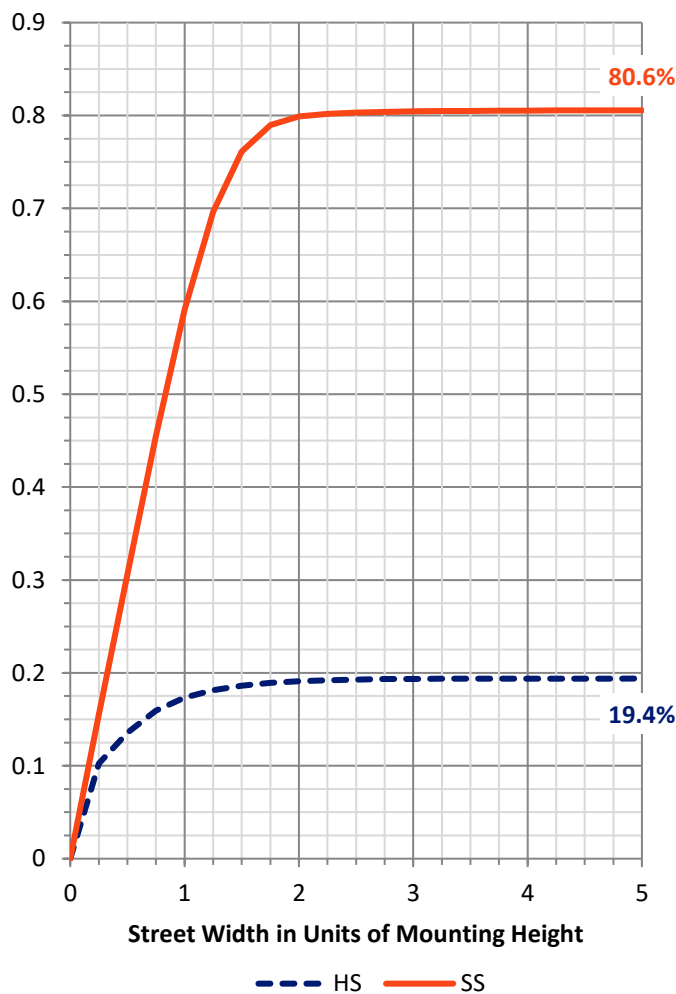
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4029.2	0.0	4029.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	16651.4	0.0	16651.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	20680.6	0.0	20680.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.6	2.2
10°-20°	1234.5	6.0
20°-30°	2118.5	10.2
30°-40°	3513.6	17.0
40°-50°	5165.2	25.0
50°-60°	6035.7	29.2
60°-70°	2045.9	9.9
70°-80°	104.6	0.5
80°-90°	4.1	0.0
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°	20680.6	100.0
0°-180°	20680.6	100.0

Coefficient of Utilization



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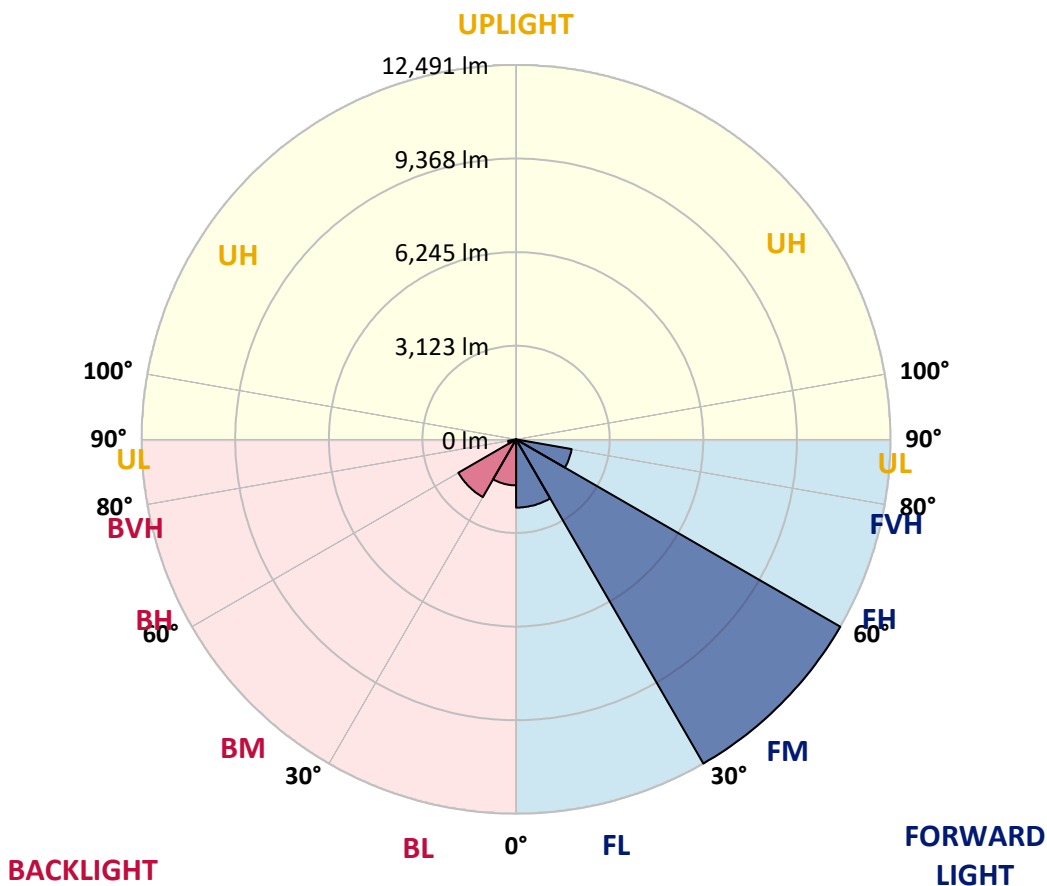
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2276.4	11.0			
FM (30°-60°)	12490.5	60.4			
FH (60°-80°)	1882.3	9.1			G2/5000
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1535.1	7.4	B3/2500		
BM (30°-60°)	2224.0	10.8	B2/2500		
BH (60°-80°)	268.2	1.3	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4959.4	4959.4	4959.4	4959.4	4959.4	4959.4	4959.4	4959.4	4959.4	4959.4	4959.4
2.5°	4619.0	4609.5	4628.4	4666.2	4701.7	4713.5	4749.0	4798.6	4829.4	4902.6	4961.7
5°	4411.0	4406.2	4425.1	4458.2	4505.5	4522.1	4576.4	4659.2	4741.9	4869.5	4994.8
7.5°	4221.8	4219.5	4247.8	4321.1	4389.7	4411.0	4477.1	4578.8	4689.9	4886.1	5070.5
10°	3973.6	3976.0	4030.4	4134.4	4259.7	4302.2	4408.6	4555.1	4699.3	4952.3	5207.6
12.5°	3893.3	3898.0	3926.4	4006.7	4143.8	4198.2	4347.1	4569.3	4753.7	5046.8	5384.9
15°	4089.5	4089.5	4065.8	4075.3	4136.7	4186.4	4342.4	4616.6	4845.9	5160.3	5559.8
17.5°	4470.0	4455.9	4396.8	4316.4	4295.1	4311.7	4437.0	4718.3	4975.9	5292.7	5758.3
20°	4985.4	4990.1	4874.3	4706.4	4571.7	4569.3	4645.0	4897.9	5162.7	5451.0	5973.5
22.5°	5609.4	5590.5	5436.9	5207.6	4973.5	4954.6	4985.4	5172.1	5432.1	5701.6	6238.2
25°	6332.8	6323.3	6105.8	5798.5	5488.9	5444.0	5444.0	5628.3	5817.4	6058.6	6555.0
27.5°	7089.2	7089.2	6878.8	6524.2	6112.9	6032.6	6020.7	6238.2	6363.5	6410.8	6822.1
30°	7866.9	7857.5	7649.4	7285.4	6845.7	6763.0	6729.9	6890.6	6980.5	6838.6	7155.4
32.5°	8656.4	8673.0	8462.6	8124.6	7732.2	7677.8	7576.2	7576.2	7649.4	7450.9	7680.2
35°	9505.1	9500.3	9334.9	9105.6	8769.9	8708.4	8540.6	8278.2	8389.3	8301.9	8405.9
37.5°	10254.4	10289.9	10209.5	10039.3	9767.4	9706.0	9429.4	8954.3	9039.4	9176.5	9268.7
40°	11015.6	11043.9	11124.3	11069.9	10727.2	10613.7	10122.0	9342.0	9436.5	9906.9	10171.7
42.5°	11762.5	11776.7	11939.8	12029.7	11571.1	11372.5	10646.8	9578.3	9677.6	10479.0	10942.3
45°	12237.7	12268.4	12537.9	12812.1	12315.7	12043.8	11103.0	9880.9	9923.5	10876.1	11512.0
47.5°	12218.8	12289.7	12795.5	13294.3	12956.3	12663.2	11651.4	10365.5	10294.6	11249.6	11887.8
50°	11838.2	11923.3	12649.0	13440.9	13417.2	13145.4	12261.3	11067.6	10845.4	11580.5	11935.1
52.5°	11048.7	11294.5	12391.3	13459.8	13788.4	13651.3	13015.4	12013.1	11590.0	12055.7	12010.7
55°	9342.0	9644.5	11608.9	13299.0	14124.0	14140.6	13807.3	12998.8	12398.4	12873.6	12476.4
57.5°	7091.6	7332.7	8935.4	11838.2	13568.5	13840.4	14114.6	13518.9	12897.2	13431.4	12585.2
60°	4273.8	4552.8	5595.2	8687.2	10958.8	11422.1	12497.7	12381.9	11632.5	11861.8	10320.6
62.5°	1732.7	1879.3	2583.7	4786.8	6897.7	7330.3	8361.0	8535.9	8351.5	8117.5	6259.5
65°	633.5	692.6	1035.4	1978.5	3172.3	3330.7	3874.4	4184.0	4439.3	3779.8	2328.4
67.5°	392.4	430.2	673.7	1016.5	1153.6	1073.2	1092.1	1302.5	1243.4	768.3	416.0
70°	290.8	321.5	527.1	704.4	465.7	359.3	243.5	260.0	234.0	205.7	203.3
72.5°	200.9	229.3	394.8	416.0	179.7	127.6	89.8	125.3	141.8	139.5	144.2
75°	132.4	153.7	248.2	163.1	44.9	35.5	30.7	66.2	85.1	85.1	87.5
77.5°	78.0	89.8	87.5	33.1	9.5	9.5	7.1	11.8	18.9	21.3	26.0
80°	9.5	7.1	4.7	4.7	4.7	4.7	4.7	4.7	7.1	7.1	7.1
82.5°	2.4	2.4	2.4	4.7	4.7	4.7	4.7	4.7	4.7	7.1	7.1
85°	0.0	0.0	2.4	2.4	4.7	4.7	4.7	4.7	4.7	7.1	7.1
87.5°	0.0	0.0	2.4	2.4	4.7	4.7	4.7	4.7	4.7	7.1	7.1
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°	4959.4	4959.4	4959.4	4959.4	4959.4	4959.4	4959.4	4959.4	4959.4	4959.4	4959.4
2.5°	5006.6	4990.1	5058.6	5108.3	5148.5	5167.4	5141.4	5139.0	5139.0	5087.0	5072.8
5°	5065.7	5072.8	5169.7	5212.3	5219.4	5195.8	5136.7	5096.5	5072.8	5018.5	4987.7
7.5°	5179.2	5202.8	5295.0	5287.9	5224.1	5115.4	4959.4	4838.8	4760.8	4675.7	4623.7
10°	5342.3	5387.2	5444.0	5344.7	5141.4	4864.8	4543.3	4314.0	4176.9	4080.0	4020.9
12.5°	5540.9	5585.8	5566.9	5332.9	4909.7	4415.7	4002.0	3671.1	3512.7	3425.2	3363.8
15°	5741.8	5770.2	5647.2	5191.0	4500.8	3836.5	3375.6	3047.0	2853.2	2782.3	2730.3
17.5°	5947.5	5940.4	5661.4	4912.1	3954.7	3184.1	2730.3	2505.7	2451.3	2439.5	2434.8
20°	6162.6	6098.7	5604.7	4512.6	3297.6	2538.8	2281.1	2295.3	2394.6	2441.9	2451.3
22.5°	6408.4	6247.7	5462.9	3971.3	2626.2	2115.6	2141.7	2281.1	2415.9	2479.7	2489.1
25°	6670.8	6384.8	5226.5	3276.3	2070.7	1945.5	2099.1	2259.8	2404.0	2482.0	2491.5
27.5°	6843.4	6417.9	4838.8	2576.6	1777.6	1879.3	2042.4	2196.0	2344.9	2430.0	2441.9
30°	7030.1	6403.7	4311.7	1985.6	1678.3	1822.5	1964.4	2103.8	2240.9	2335.5	2344.9
32.5°	7304.3	6394.2	3668.7	1612.1	1638.2	1777.6	1881.6	1997.5	2092.0	2146.4	2139.3
35°	7663.6	6382.4	2919.4	1453.8	1614.5	1742.2	1824.9	1879.3	1775.3	1742.2	1749.3
37.5°	8124.6	6410.8	2288.2	1387.6	1607.4	1732.7	1803.6	1647.6	1486.9	1425.4	1415.9
40°	8635.2	6484.1	1744.5	1361.6	1631.1	1756.3	1723.2	1465.6	1267.0	1146.5	1120.5
42.5°	9148.1	6564.4	1380.5	1352.1	1671.2	1822.5	1590.9	1333.2	1035.4	966.8	957.4
45°	9528.7	6550.2	1193.7	1335.6	1706.7	1860.4	1555.4	1144.1	924.3	893.5	895.9
47.5°	9720.2	6394.2	1092.1	1297.8	1720.9	1822.5	1468.0	1066.1	848.6	881.7	910.1
50°	9618.5	5990.0	997.5	1224.5	1690.2	1772.9	1328.5	1007.0	810.8	947.9	1011.7
52.5°	9495.6	5493.6	893.5	1111.0	1616.9	1704.3	1274.1	990.5	787.2	914.8	962.1
55°	9658.7	5179.2	723.3	936.1	1472.7	1543.6	1231.6	988.1	732.8	711.5	704.4
57.5°	9429.4	4552.8	517.7	673.7	1129.9	1222.1	1200.8	971.5	650.1	647.7	657.2
60°	7287.8	2777.5	354.6	427.9	692.6	780.1	1089.7	929.0	560.2	515.3	517.7
62.5°	4141.5	1181.9	243.5	264.8	354.6	420.8	832.1	843.9	517.7	491.7	517.7
65°	1442.0	423.1	189.1	177.3	196.2	224.6	477.5	652.4	470.4	425.5	430.2
67.5°	297.8	210.4	167.8	146.6	146.6	146.6	243.5	406.6	387.7	338.0	342.8
70°	189.1	179.7	146.6	125.3	120.6	111.1	139.5	224.6	267.1	245.8	248.2
72.5°	139.5	137.1	115.8	101.6	89.8	80.4	87.5	111.1	137.1	141.8	144.2
75°	85.1	87.5	75.6	63.8	56.7	49.6	52.0	52.0	52.0	47.3	52.0
77.5°	26.0	28.4	23.6	18.9	16.5	16.5	16.5	14.2	11.8	7.1	7.1
80°	7.1	7.1	7.1	7.1	7.1	4.7	4.7	2.4	2.4	0.0	0.0
82.5°	7.1	7.1	7.1	7.1	4.7	4.7	2.4	2.4	0.0	0.0	0.0
85°	7.1	7.1	7.1	7.1	4.7	4.7	2.4	2.4	0.0	0.0	0.0
87.5°	7.1	7.1	7.1	7.1	4.7	4.7	2.4	2.4	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)