

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: P642617

Luminaire Tested: GWS-SA6D-730-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-730-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21866.6 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

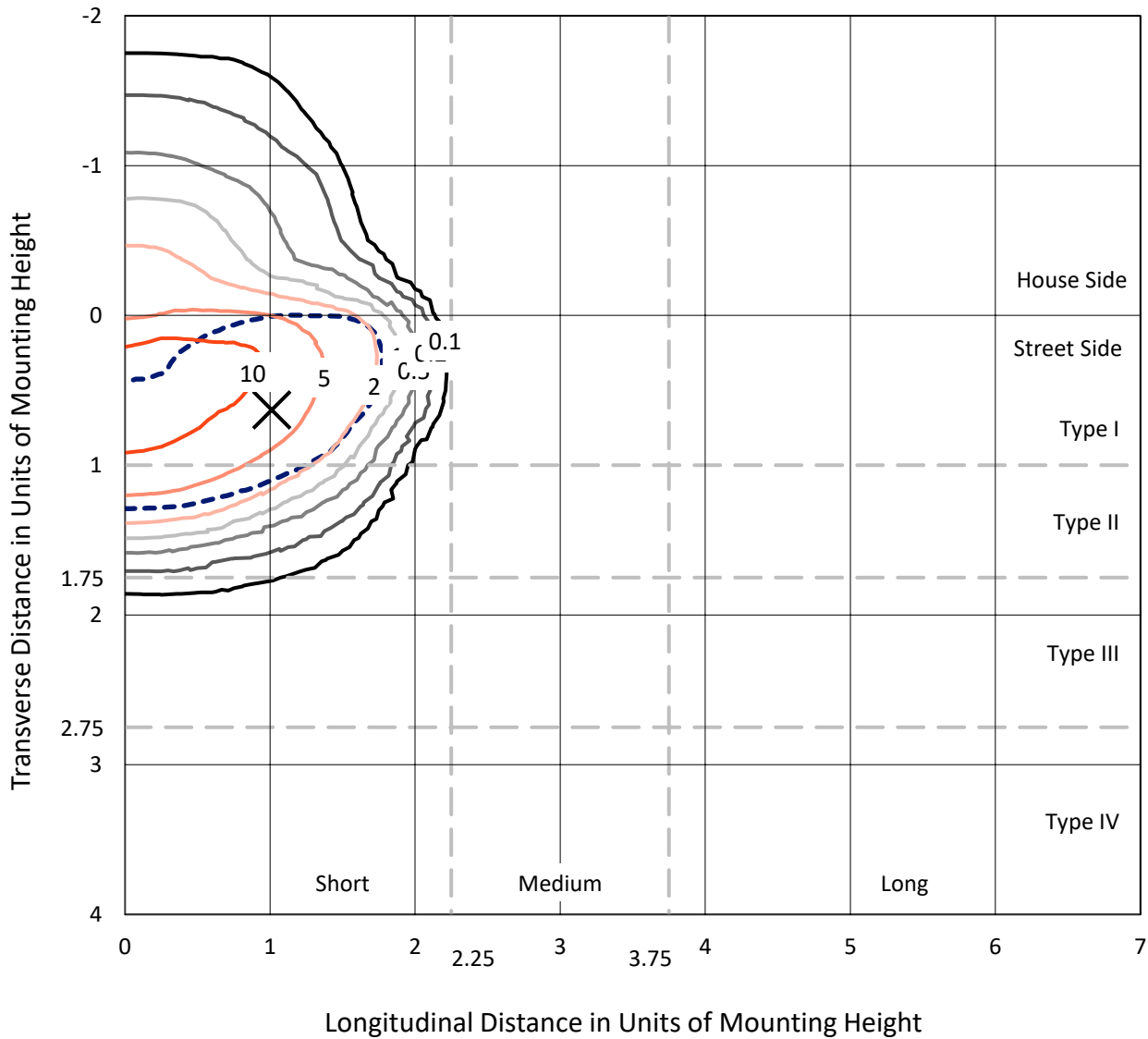
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

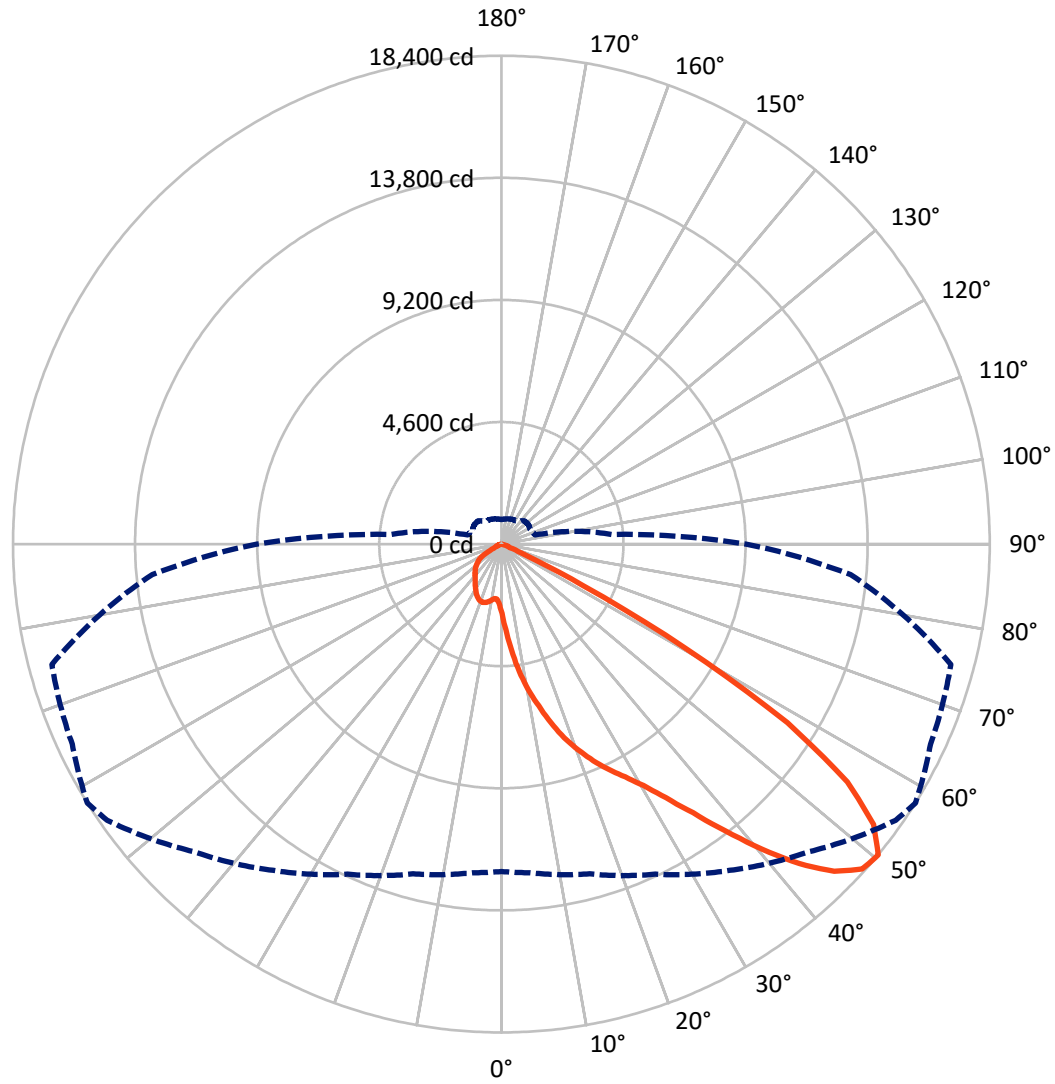
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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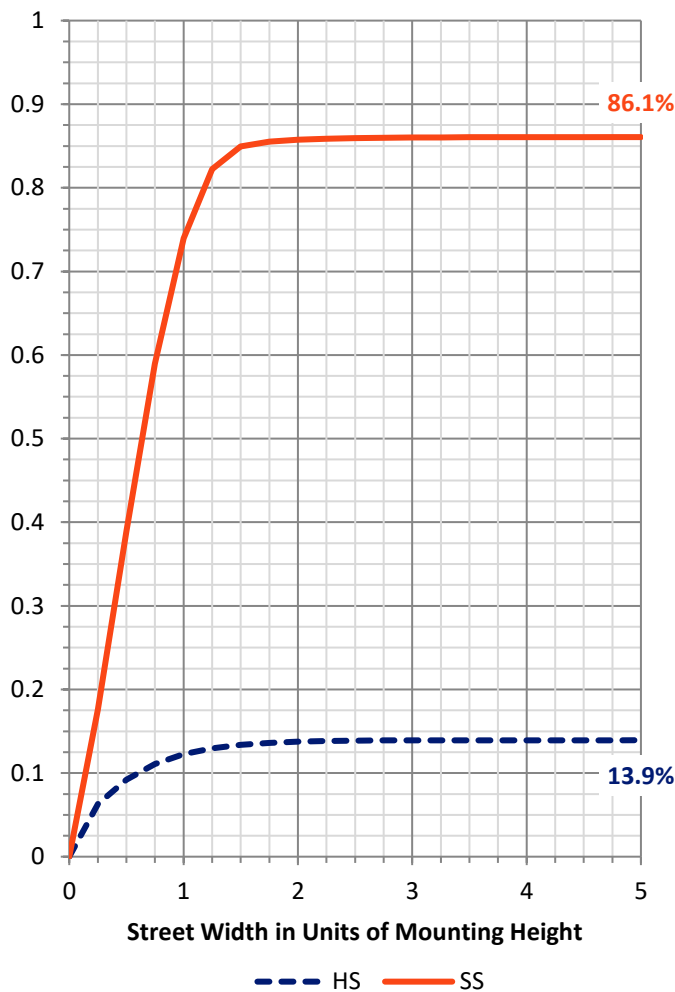
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3062.7	0.0	3062.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18803.9	0.0	18803.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	21866.6	0.0	21866.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.6	1.5
10°-20°	1281.0	5.9
20°-30°	2592.0	11.9
30°-40°	4585.6	21.0
40°-50°	6684.9	30.6
50°-60°	5358.1	24.5
60°-70°	965.3	4.4
70°-80°	76.1	0.3
80°-90°	0.0	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°	21866.6	100.0
0°-180°	21866.6	100.0

Coefficient of Utilization



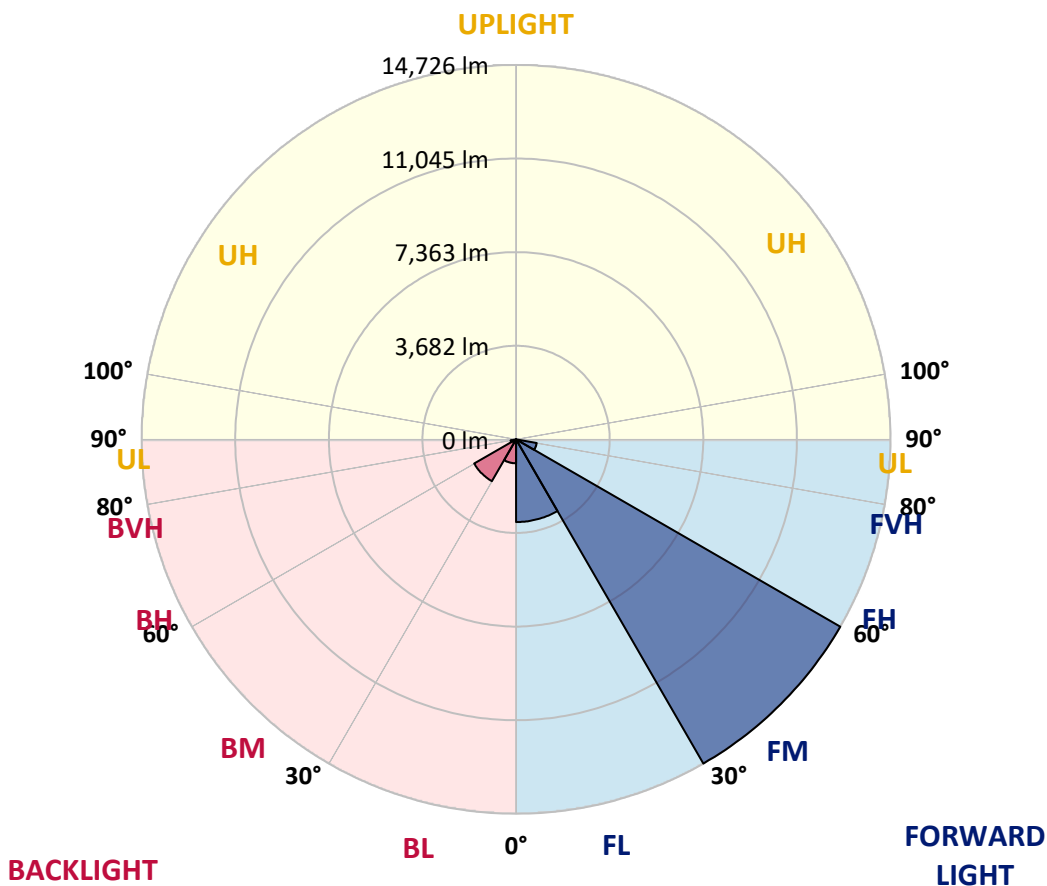
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3253.7	14.9			
FM (30°-60°)	14726.5	67.3			
FH (60°-80°)	823.7	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	942.9	4.3	B2/1000		
BM (30°-60°)	1902.1	8.7	B2/2500		
BH (60°-80°)	217.7	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2611.9	2611.9	2611.9	2611.9	2611.9	2611.9	2611.9	2611.9	2611.9	2611.9	2611.9
2.5°	3865.3	3804.5	3769.4	3741.3	3617.4	3421.0	3292.4	3224.6	3112.3	2922.9	2759.2
5°	5043.8	4999.4	4917.5	4861.4	4702.4	4424.1	4136.5	4021.9	3767.1	3339.2	2955.7
7.5°	5824.8	5792.1	5761.7	5686.8	5537.2	5284.7	4966.6	4847.4	4454.5	3846.6	3217.6
10°	6425.8	6400.0	6365.0	6362.6	6245.7	6018.9	5707.9	5584.0	5158.4	4398.4	3526.2
12.5°	6954.2	6933.2	6926.2	6991.6	6916.8	6748.5	6411.7	6257.4	5806.1	4962.0	3867.6
15°	7316.7	7312.0	7342.4	7471.0	7513.1	7435.9	7153.0	6987.0	6467.9	5527.8	4244.1
17.5°	7482.7	7496.7	7555.2	7777.3	7964.4	8029.9	7812.4	7672.1	7124.9	6100.7	4646.3
20°	7765.6	7761.0	7796.0	8006.5	8235.6	8469.5	8404.0	8284.7	7789.0	6706.4	5092.9
22.5°	8563.0	8495.2	8420.4	8453.1	8534.9	8808.5	8930.1	8869.3	8474.2	7328.4	5553.6
25°	9788.3	9718.1	9477.3	9243.5	9089.1	9213.1	9379.1	9409.5	9154.6	7966.7	6035.3
27.5°	11088.4	11025.3	10754.0	10403.3	9961.3	9746.2	9870.1	9930.9	9823.4	8726.7	6547.4
30°	12306.7	12222.5	11925.5	11490.6	10978.5	10648.8	10508.5	10550.6	10613.7	9627.0	7148.3
32.5°	13363.6	13300.5	12945.1	12486.7	11993.4	11649.6	11322.3	11392.4	11546.7	10728.3	7917.6
35°	14259.2	14226.5	13850.0	13394.0	12872.6	12697.2	12416.6	12430.6	12585.0	12058.8	8855.3
37.5°	15037.9	14981.8	14640.4	14217.1	13803.2	13775.2	13698.0	13705.0	13784.5	13609.1	9933.3
40°	15528.9	15477.5	15234.3	14972.4	14677.8	14682.4	15082.3	15112.7	15021.5	15131.4	11072.0
42.5°	15713.7	15676.2	15545.3	15547.6	15517.2	15655.2	16405.8	16461.9	16134.6	16326.3	12044.8
45°	15393.3	15376.9	15386.3	15723.0	16087.8	16513.4	17488.5	17586.7	17123.7	17119.0	12804.8
47.5°	14359.8	14327.0	14600.6	15173.5	16017.6	16845.4	18143.2	18295.2	17815.8	17572.6	13281.8
50°	12334.8	12428.3	12860.9	13721.4	15005.1	16389.4	18136.2	18400.4	17841.5	17532.9	13202.3
52.5°	8934.8	8916.1	9863.1	11046.3	12608.3	14930.3	17172.8	17558.6	17217.2	17142.4	13024.6
55°	4861.4	5032.1	5670.5	7237.2	9187.3	12168.7	14972.4	15814.2	16209.4	16999.7	13344.9
57.5°	1786.5	1861.3	2261.2	3369.6	4863.8	7566.9	11436.8	12706.5	13927.2	16602.2	13291.1
60°	720.2	734.2	893.2	1239.3	2043.7	3851.2	6860.7	7987.8	9138.2	12708.9	10199.8
62.5°	523.8	542.5	605.6	724.9	1033.5	1683.6	2958.0	3439.7	3760.1	6294.8	5025.1
65°	423.2	437.3	488.7	542.5	682.8	904.9	954.0	919.0	914.3	1627.5	1152.8
67.5°	350.8	364.8	402.2	439.6	491.1	451.3	327.4	343.7	280.6	278.3	226.8
70°	257.2	273.6	311.0	350.8	294.6	121.6	189.4	280.6	212.8	177.7	173.0
72.5°	194.1	205.8	240.8	229.2	86.5	46.8	126.3	203.4	163.7	130.9	128.6
75°	145.0	152.0	121.6	37.4	9.4	11.7	46.8	84.2	91.2	74.8	74.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.7	7.0	9.4	11.7	14.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2611.9	2611.9	2611.9	2611.9	2611.9	2611.9	2611.9	2611.9	2611.9	2611.9	2611.9
2.5°	2665.7	2567.5	2427.2	2310.3	2221.4	2134.9	2069.4	2004.0	2001.6	1968.9	1961.9
5°	2778.0	2600.2	2343.0	2158.3	2046.0	1978.2	1931.5	1908.1	1896.4	1884.7	1880.0
7.5°	2939.3	2684.4	2329.0	2132.6	2039.0	1994.6	1961.9	1947.8	1940.8	1931.5	1929.1
10°	3138.1	2806.0	2380.4	2181.7	2099.8	2057.7	2022.7	2001.6	1989.9	1973.6	1968.9
12.5°	3376.6	2955.7	2462.3	2263.5	2177.0	2120.9	2074.1	2043.7	2027.3	2006.3	2001.6
15°	3633.8	3117.0	2553.5	2338.3	2235.5	2163.0	2104.5	2057.7	2027.3	2001.6	1994.6
17.5°	3900.4	3280.7	2635.3	2389.8	2263.5	2177.0	2092.8	2029.7	1992.3	1959.5	1950.2
20°	4199.7	3449.1	2689.1	2399.1	2254.2	2139.6	2041.4	1961.9	1924.5	1880.0	1870.7
22.5°	4513.0	3605.7	2712.5	2378.1	2202.7	2069.4	1964.2	1882.4	1828.6	1781.8	1767.8
25°	4817.0	3746.0	2700.8	2319.6	2125.6	1971.2	1863.7	1779.5	1721.0	1674.3	1662.6
27.5°	5139.7	3862.9	2658.7	2233.1	2020.3	1863.7	1760.8	1688.3	1634.5	1583.1	1571.4
30°	5502.1	3970.5	2590.9	2127.9	1896.4	1753.8	1674.3	1625.1	1566.7	1512.9	1496.5
32.5°	5939.4	4066.4	2492.7	2001.6	1786.5	1657.9	1613.5	1576.0	1508.2	1452.1	1440.4
35°	6439.8	4145.9	2368.7	1870.7	1678.9	1597.1	1587.7	1538.6	1449.8	1384.3	1370.3
37.5°	7019.7	4223.0	2221.4	1742.1	1599.4	1569.0	1571.4	1487.2	1379.6	1300.1	1290.8
40°	7644.0	4300.2	2057.7	1629.8	1526.9	1552.7	1531.6	1412.4	1237.0	1159.8	1150.5
42.5°	8294.1	4384.4	1891.7	1524.6	1466.1	1489.5	1459.1	1262.7	1136.4	1096.7	1092.0
45°	8881.0	4484.9	1711.7	1419.4	1405.3	1398.3	1346.9	1143.4	1089.7	1061.6	1059.3
47.5°	9304.3	4468.6	1519.9	1318.8	1339.9	1316.5	1159.8	1087.3	1042.9	1005.5	996.1
50°	9227.1	4183.3	1321.2	1206.6	1255.7	1234.6	1042.9	1021.9	982.1	942.4	928.3
52.5°	9030.7	3795.1	1148.1	1087.3	1164.5	1115.4	963.4	942.4	907.3	855.8	839.5
55°	9135.9	3430.3	1012.5	991.5	1071.0	923.6	874.5	841.8	804.4	748.3	741.3
57.5°	8796.8	2799.0	813.7	827.8	947.0	788.0	767.0	715.5	652.4	615.0	610.3
60°	6089.0	1503.6	509.8	526.1	685.1	661.8	687.5	640.7	563.5	528.5	521.5
62.5°	2796.7	603.3	278.3	266.6	360.1	449.0	589.3	584.6	488.7	432.6	427.9
65°	678.1	275.9	198.8	187.1	203.4	268.9	383.5	460.7	395.2	329.7	322.7
67.5°	219.8	224.5	182.4	170.7	180.1	201.1	229.2	254.9	252.5	231.5	226.8
70°	175.4	203.4	168.4	154.3	154.3	161.3	154.3	123.9	107.6	116.9	121.6
72.5°	130.9	154.3	133.3	119.3	114.6	112.2	95.9	70.2	49.1	44.4	42.1
75°	77.2	86.5	81.8	70.2	65.5	58.5	46.8	30.4	16.4	11.7	7.0
77.5°	14.0	16.4	18.7	14.0	11.7	9.4	7.0	2.3	0.0	0.0	0.0
80°	0.0	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)