

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: P641708

Luminaire Tested: GWS-SA6B-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19207.8 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

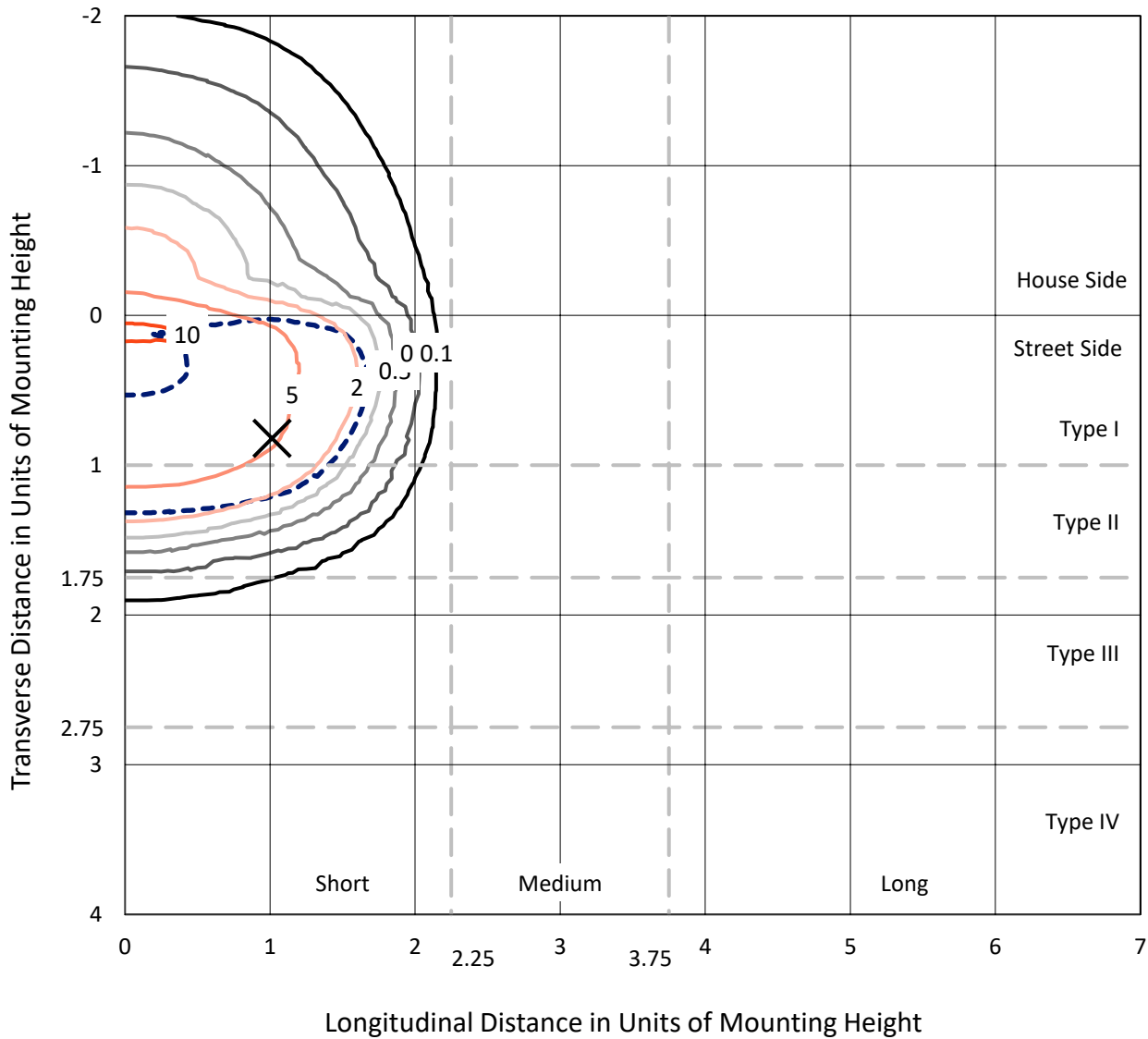
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

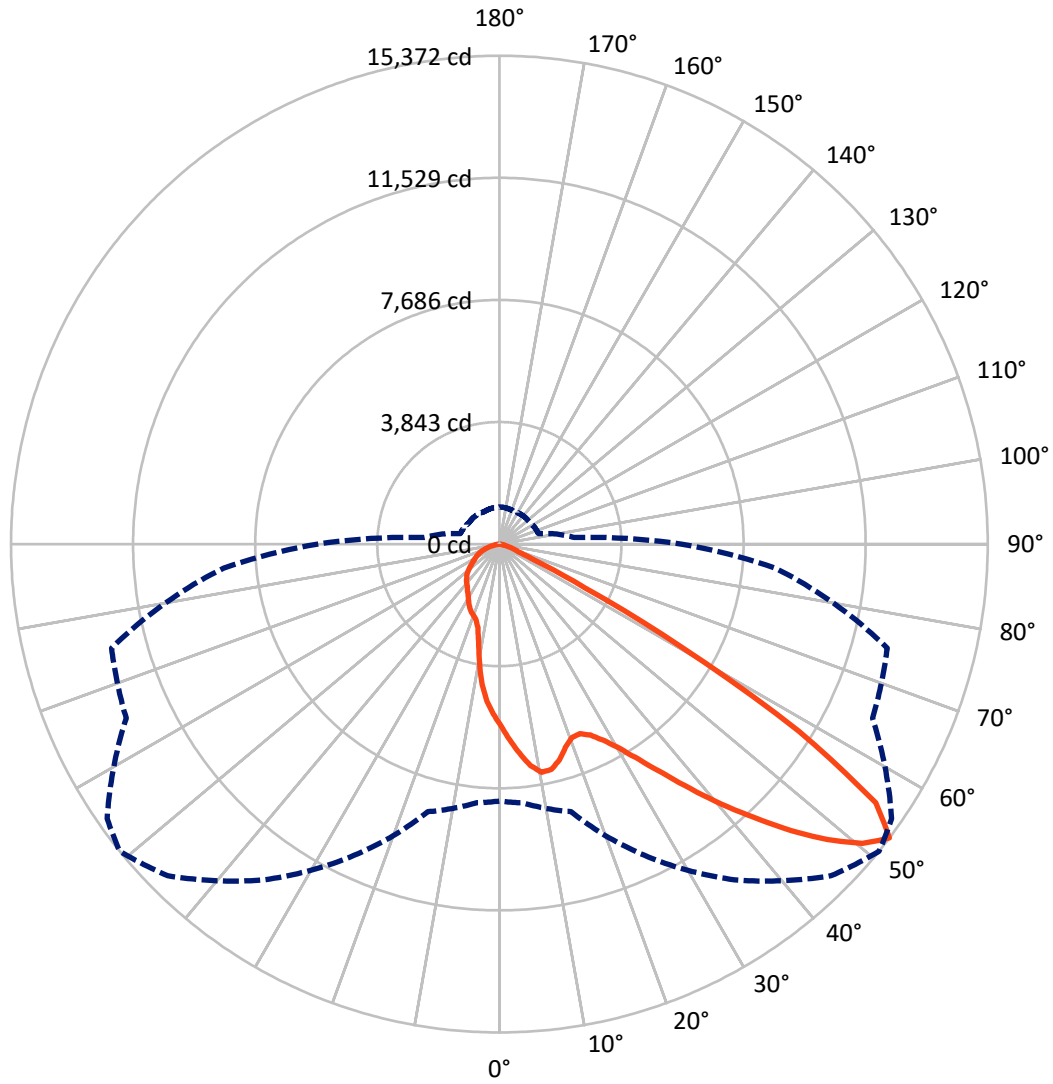
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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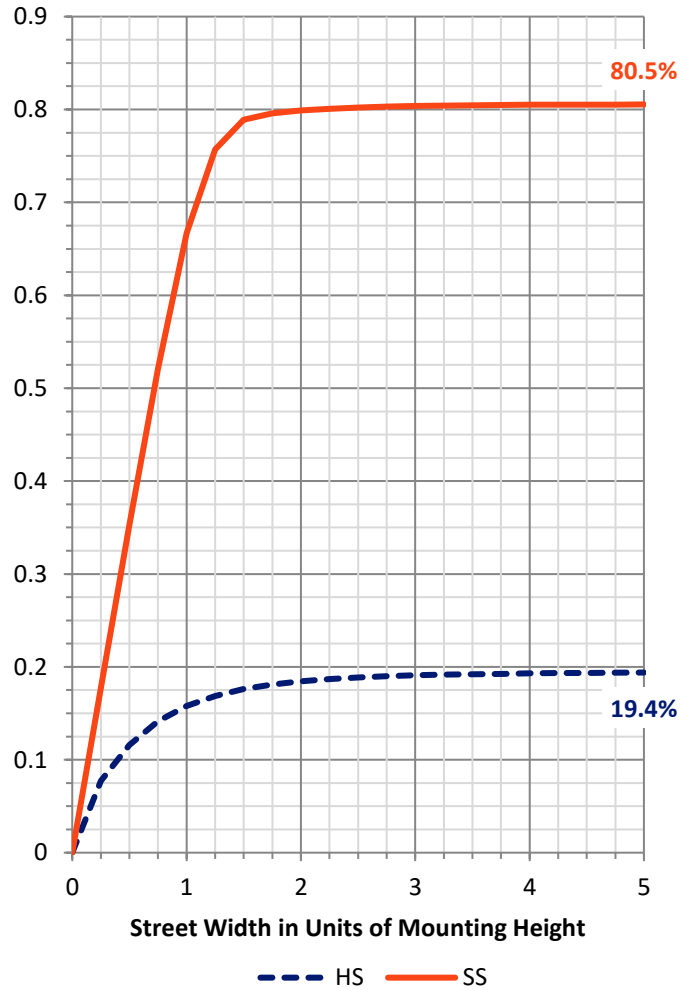
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3742.5	0.0	3742.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	15465.3	0.0	15465.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	19207.8	0.0	19207.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.7	2.8
10°-20°	1386.7	7.2
20°-30°	2254.7	11.7
30°-40°	3573.1	18.6
40°-50°	5389.0	28.1
50°-60°	4661.9	24.3
60°-70°	1056.9	5.5
70°-80°	311.6	1.6
80°-90°	40.1	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°	19207.8	100.0
0°-180°	19207.8	100.0

Coefficient of Utilization



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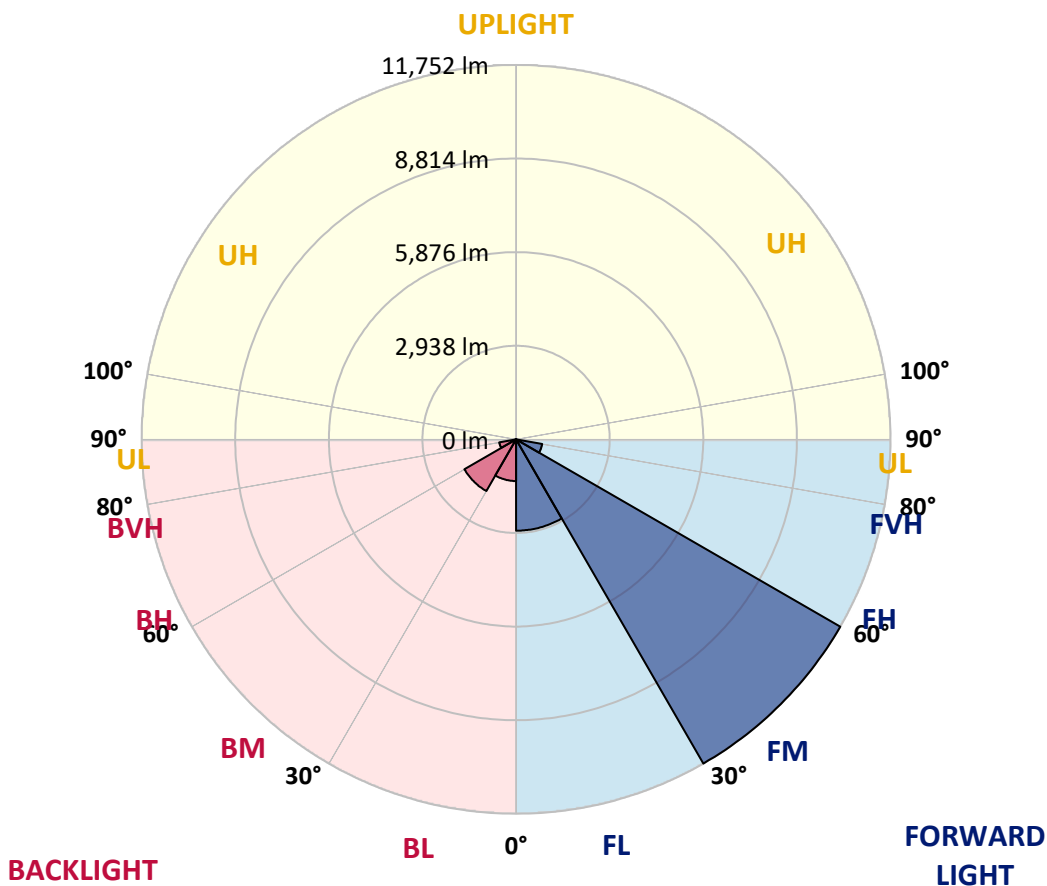
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2866.8	14.9			
FM (30°-60°)	11751.6	61.2			
FH (60°-80°)	831.8	4.3			G1/1800
FVH (80°-90°)	15.1	0.1			G1/100
BL (0°-30°)	1308.2	6.8	B3/2500		
BM (30°-60°)	1872.5	9.7	B2/2500		
BH (60°-80°)	536.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	25.0	0.1			G1/100
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°	45°	51°	55°	65°	75°	85°
0°	5719.1	5719.1	5719.1	5719.1	5719.1	5719.1	5719.1	5719.1	5719.1	5719.1	5719.1
2.5°	6373.3	6409.7	6353.6	6332.3	6297.4	6236.7	6166.9	6147.1	5996.9	5898.2	5787.4
5°	7013.8	7033.5	6988.0	6942.5	6856.0	6748.2	6613.1	6584.3	6311.1	6084.9	5849.7
7.5°	7156.5	7148.9	7188.4	7214.2	7203.5	7161.0	7041.1	6985.0	6658.6	6300.4	5952.9
10°	6591.9	6549.4	6695.1	6868.1	7076.0	7315.9	7302.2	7297.6	7013.8	6590.3	6084.9
12.5°	5843.6	5822.3	5940.7	6157.8	6550.9	7082.1	7281.0	7435.8	7334.1	6866.6	6232.1
15°	5415.6	5408.0	5488.4	5644.7	5957.4	6628.3	7053.3	7359.9	7608.8	7162.6	6388.5
17.5°	5338.1	5342.7	5370.0	5459.6	5684.2	6236.7	6728.5	7156.5	7822.8	7487.4	6584.3
20°	5564.3	5594.7	5547.6	5561.3	5682.7	6095.5	6506.9	6951.6	7959.4	7813.7	6795.2
22.5°	6066.7	6056.1	5952.9	5892.2	5893.7	6182.1	6482.6	6856.0	8049.0	8130.9	6986.5
25°	6635.9	6623.7	6500.8	6365.7	6280.7	6417.3	6657.1	6957.7	8129.4	8420.8	7139.8
27.5°	7308.3	7270.3	7133.7	6960.7	6772.5	6831.7	6994.1	7232.4	8253.9	8706.2	7241.5
30°	7959.4	8003.4	7807.6	7602.7	7403.9	7367.5	7461.6	7677.1	8507.3	9040.1	7362.9
32.5°	8823.0	8807.9	8590.8	8323.7	8039.9	8012.5	8086.9	8284.2	8962.7	9501.5	7548.1
35°	9868.8	9871.9	9563.7	9202.5	8798.8	8725.9	8850.4	9041.6	9641.1	10126.9	7841.0
37.5°	10955.6	10951.0	10682.4	10272.6	9721.6	9618.4	9761.1	9903.7	10489.6	10978.3	8296.4
40°	11717.5	11747.9	11621.9	11406.4	10884.2	10632.3	10758.3	10856.9	11412.4	11980.1	8895.9
42.5°	12150.1	12195.6	12223.0	12352.0	12077.2	11808.6	11763.1	11814.7	12236.6	12910.5	9459.0
45°	12242.7	12303.4	12502.2	12980.3	13086.6	13010.7	12861.9	12737.5	12851.3	13570.8	9827.8
47.5°	11834.4	11940.6	12365.6	13201.9	13822.7	14061.0	13895.6	13705.9	13206.5	13740.8	9789.9
50°	10216.4	10340.9	11298.6	12749.6	13927.5	14795.6	14810.8	14530.0	13164.0	13250.5	9313.3
52.5°	8088.4	8173.4	8721.4	10808.3	12899.9	14765.3	15372.4	15071.9	12959.1	12637.3	8716.8
55°	4834.2	4970.8	5482.3	7130.7	10049.4	13086.6	14379.8	14525.5	12858.9	12122.8	8310.0
57.5°	1631.6	1698.4	2187.2	3149.5	5922.5	9582.0	11110.4	11702.3	11673.5	11336.5	7516.2
60°	777.1	792.3	891.0	1194.5	2370.8	5007.3	6576.7	7259.7	7882.0	7944.2	4676.4
62.5°	591.9	601.1	651.1	716.4	953.2	2109.8	3014.4	3536.5	3777.8	3242.0	1703.0
65°	494.8	502.4	540.3	581.3	648.1	913.7	1156.6	1334.2	1202.1	936.5	812.0
67.5°	412.8	418.9	447.8	491.8	537.3	611.7	642.0	660.2	692.1	777.1	746.8
70°	323.3	329.4	359.7	397.7	441.7	459.9	488.7	506.9	570.7	680.0	676.9
72.5°	248.9	256.5	273.2	297.5	333.9	352.1	384.0	405.3	441.7	529.7	566.1
75°	182.1	186.7	201.9	209.5	214.0	209.5	241.3	265.6	314.2	347.6	356.7
77.5°	74.4	83.5	80.4	80.4	95.6	115.4	132.0	147.2	180.6	200.4	201.9
80°	30.4	33.4	39.5	44.0	53.1	68.3	78.9	85.0	100.2	112.3	121.4
82.5°	18.2	19.7	22.8	24.3	30.4	39.5	45.5	50.1	62.2	74.4	78.9
85°	9.1	9.1	10.6	12.1	15.2	18.2	21.2	24.3	31.9	39.5	44.0
87.5°	1.5	1.5	1.5	3.0	4.6	6.1	7.6	9.1	10.6	12.1	15.2
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°	5719.1	5719.1	5719.1	5719.1	5719.1	5719.1	5719.1	5719.1	5719.1	5719.1	5719.1
2.5°	5722.2	5640.2	5544.6	5468.7	5380.6	5315.4	5222.8	5165.1	5110.5	5064.9	5031.6
5°	5728.2	5590.1	5391.3	5215.2	5033.1	4860.0	4682.5	4538.3	4409.2	4301.5	4292.4
7.5°	5763.1	5564.3	5253.2	4945.0	4589.9	4246.8	3903.8	3624.5	3412.0	3301.2	3278.5
10°	5822.3	5561.3	5112.0	4620.2	4014.6	3462.1	3055.4	2842.9	2719.9	2675.9	2660.7
12.5°	5884.6	5553.7	4931.4	4161.8	3321.0	2836.8	2613.7	2587.9	2610.6	2613.7	2612.2
15°	5960.5	5549.1	4703.7	3624.5	2814.0	2546.9	2562.1	2616.7	2669.8	2682.0	2682.0
17.5°	6053.0	5538.5	4394.1	3099.4	2496.8	2490.7	2571.2	2644.0	2694.1	2703.2	2703.2
20°	6150.2	5511.2	4013.1	2671.4	2367.8	2455.8	2542.3	2598.5	2633.4	2645.5	2647.1
22.5°	6217.0	5438.3	3574.5	2354.1	2287.3	2389.0	2451.3	2508.9	2508.9	2478.6	2469.5
25°	6230.6	5282.0	3099.4	2137.1	2191.7	2285.8	2349.6	2316.2	2254.0	2229.7	2228.1
27.5°	6180.5	5054.3	2630.4	1982.3	2076.4	2170.5	2159.8	2111.3	2084.0	2059.7	2068.8
30°	6119.8	4781.1	2223.6	1854.8	1942.8	2035.4	1999.0	1982.3	1962.5	1935.2	1941.3
32.5°	6078.8	4476.0	1910.9	1756.1	1853.2	1868.4	1894.2	1892.7	1874.5	1822.9	1819.9
35°	6091.0	4167.9	1701.5	1675.7	1778.9	1772.8	1821.4	1812.3	1686.3	1615.0	1610.4
37.5°	6188.1	3871.9	1578.5	1611.9	1660.5	1698.4	1740.9	1631.6	1587.6	1542.1	1545.1
40°	6373.3	3597.2	1511.7	1577.0	1589.2	1645.3	1546.7	1545.1	1525.4	1484.4	1482.9
42.5°	6582.8	3365.0	1466.2	1560.3	1543.6	1554.2	1449.5	1461.7	1460.1	1434.3	1426.7
45°	6710.3	3151.0	1429.8	1498.1	1502.6	1396.4	1364.5	1378.2	1385.8	1372.1	1370.6
47.5°	6578.2	2905.1	1391.8	1402.5	1441.9	1325.1	1285.6	1287.1	1300.8	1302.3	1296.2
50°	6207.9	2630.4	1346.3	1320.5	1294.7	1250.7	1214.3	1206.7	1220.3	1234.0	1238.5
52.5°	5729.7	2367.8	1270.4	1230.9	1170.2	1170.2	1153.5	1129.3	1147.5	1165.7	1171.8
55°	5379.1	2173.5	1162.6	1118.6	1051.8	1074.6	1071.6	1050.3	1074.6	1088.3	1092.8
57.5°	4661.2	1747.0	1023.0	1009.3	953.2	980.5	986.6	959.3	947.1	950.2	954.7
60°	2767.0	1127.7	922.8	921.3	871.2	903.1	921.3	894.0	857.6	862.1	868.2
62.5°	1241.6	862.1	796.9	790.8	789.3	830.2	850.0	824.2	772.6	777.1	783.2
65°	781.7	745.2	692.1	692.1	716.4	751.3	766.5	745.2	686.1	678.5	684.5
67.5°	725.5	693.6	639.0	628.4	640.5	669.4	670.9	629.9	595.0	588.9	588.9
70°	651.1	626.9	573.7	552.5	547.9	546.4	541.9	531.2	508.5	502.4	505.4
72.5°	538.8	522.1	488.7	466.0	453.8	452.3	434.1	425.0	405.3	402.2	400.7
75°	356.7	361.2	361.2	358.2	347.6	343.0	323.3	314.2	291.4	282.3	280.8
77.5°	211.0	215.5	221.6	223.1	221.6	221.6	203.4	192.8	170.0	157.9	154.8
80°	129.0	132.0	135.1	139.6	133.6	129.0	112.3	101.7	91.1	83.5	82.0
82.5°	83.5	86.5	88.0	91.1	88.0	82.0	68.3	62.2	54.6	48.6	47.1
85°	47.1	48.6	51.6	51.6	47.1	42.5	34.9	30.4	25.8	22.8	22.8
87.5°	16.7	16.7	16.7	18.2	15.2	13.7	9.1	6.1	4.6	4.6	4.6
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)