

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: P641653

Luminaire Tested: GWS-SA6B-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641653
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18944.5 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

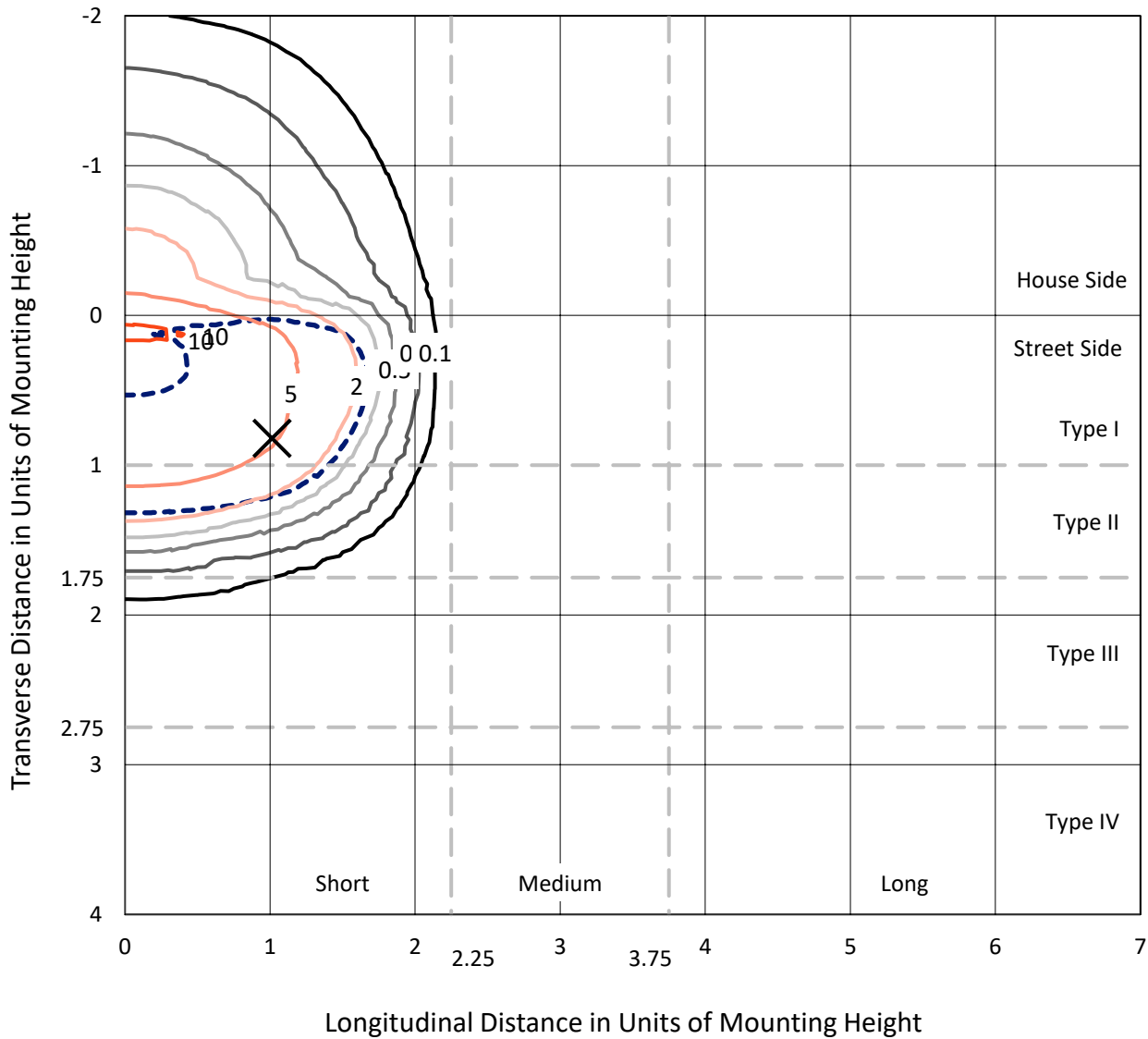
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

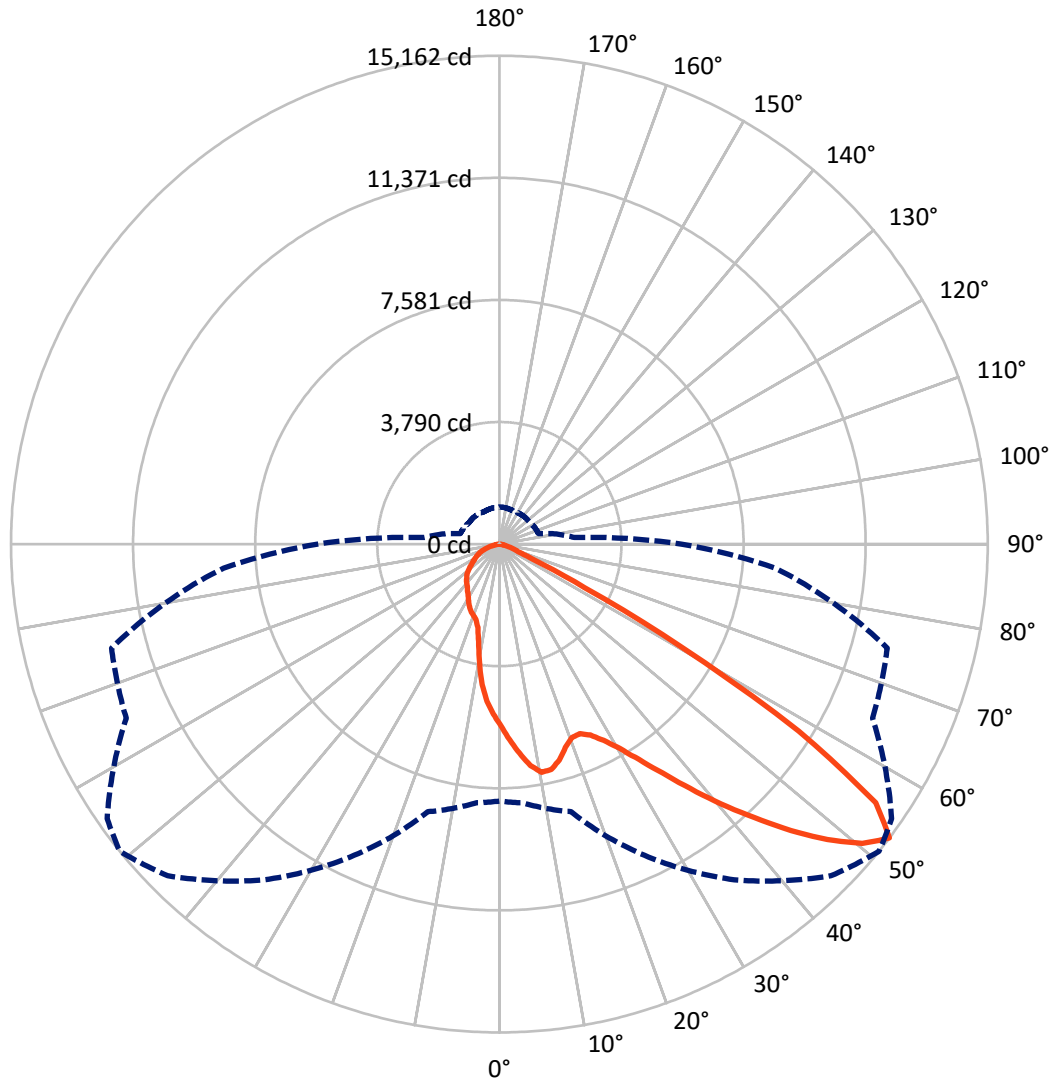
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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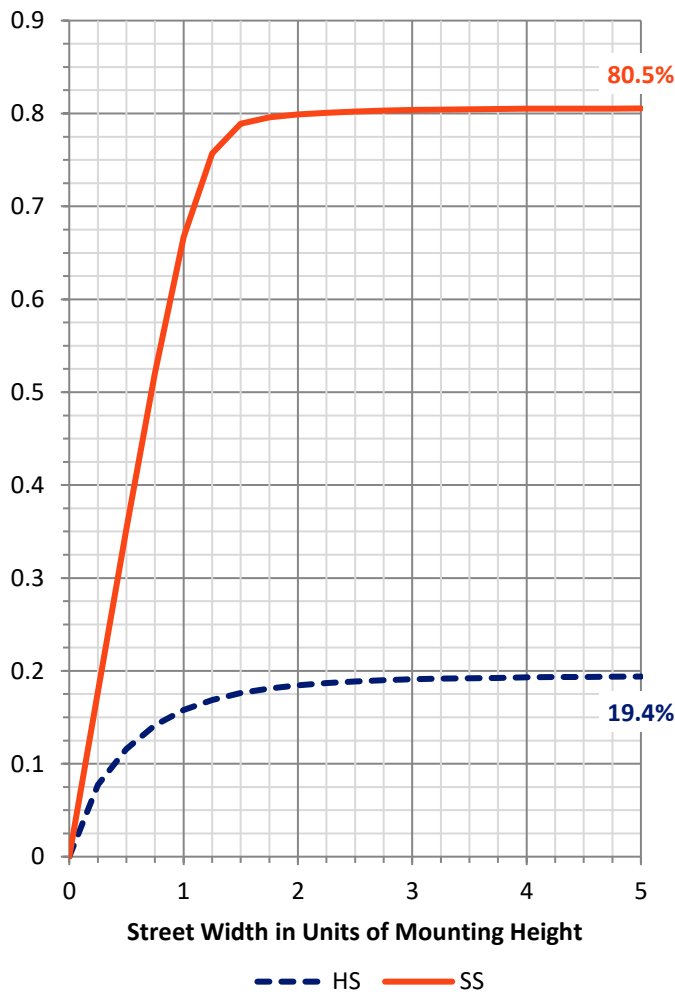
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3691.2	0.0	3691.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	15253.3	0.0	15253.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	18944.5	0.0	18944.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.4	2.8
10°-20°	1367.7	7.2
20°-30°	2223.7	11.7
30°-40°	3524.1	18.6
40°-50°	5315.2	28.1
50°-60°	4598.0	24.3
60°-70°	1042.4	5.5
70°-80°	307.4	1.6
80°-90°	39.6	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°	18944.5	100.0
0°-180°	18944.5	100.0

Coefficient of Utilization



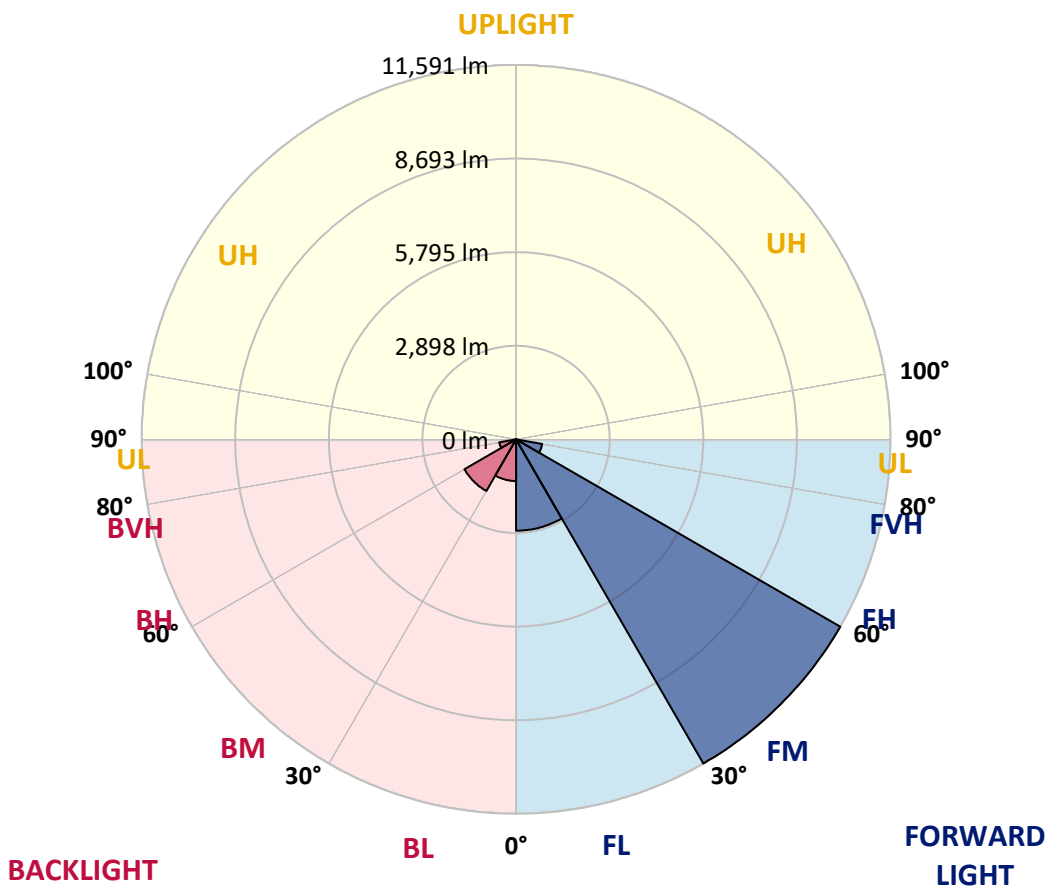
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2827.5	14.9			
FM (30°-60°)	11590.5	61.2			
FH (60°-80°)	820.4	4.3			G1/1800
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	1290.3	6.8	B3/2500		
BM (30°-60°)	1846.8	9.7	B2/2500		
BH (60°-80°)	529.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	24.7	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°	5640.7	5640.7	5640.7	5640.7	5640.7	5640.7	5640.7	5640.7	5640.7	5640.7	5640.7
2.5°	6285.9	6321.9	6266.5	6245.5	6211.1	6151.2	6082.3	6062.9	5914.7	5817.4	5708.1
5°	6917.7	6937.1	6892.2	6847.3	6762.0	6655.7	6522.5	6494.0	6224.6	6001.5	5769.5
7.5°	7058.4	7050.9	7089.8	7115.3	7104.8	7062.9	6944.6	6889.2	6567.4	6214.1	5871.3
10°	6501.5	6459.6	6603.3	6774.0	6979.0	7215.6	7202.1	7197.6	6917.7	6500.0	6001.5
12.5°	5763.5	5742.5	5859.3	6073.4	6461.1	6985.0	7181.1	7333.8	7233.5	6772.5	6146.7
15°	5341.3	5333.8	5413.2	5567.4	5875.8	6537.4	6956.6	7259.0	7504.5	7064.4	6300.9
17.5°	5265.0	5269.5	5296.4	5384.7	5606.3	6151.2	6636.2	7058.4	7715.6	7384.7	6494.0
20°	5488.0	5518.0	5471.6	5485.0	5604.8	6012.0	6417.7	6856.3	7850.3	7706.6	6702.1
22.5°	5983.5	5973.1	5871.3	5811.4	5812.9	6097.3	6393.7	6762.0	7938.6	8019.5	6890.7
25°	6544.9	6532.9	6411.7	6278.4	6194.6	6329.3	6565.9	6862.3	8018.0	8305.4	7041.9
27.5°	7208.1	7170.7	7035.9	6865.3	6679.6	6738.0	6898.2	7133.2	8140.7	8586.8	7142.2
30°	7850.3	7893.7	7700.6	7498.5	7302.4	7266.5	7359.3	7571.9	8390.7	8916.2	7262.0
32.5°	8702.1	8687.1	8473.1	8209.6	7929.6	7902.7	7976.1	8170.7	8839.8	9371.3	7444.6
35°	9733.5	9736.5	9432.6	9076.4	8678.2	8606.3	8729.0	8917.7	9509.0	9988.0	7733.5
37.5°	10805.4	10800.9	10535.9	10131.7	9588.3	9486.5	9627.3	9768.0	10345.8	10827.9	8182.6
40°	11556.9	11586.8	11462.6	11250.0	10735.0	10486.5	10610.8	10708.1	11256.0	11815.9	8774.0
42.5°	11983.5	12028.5	12055.4	12182.6	11911.7	11646.7	11601.8	11652.7	12068.9	12733.5	9329.3
45°	12074.9	12134.7	12330.8	12802.4	12907.2	12832.3	12685.6	12562.9	12675.2	13384.7	9693.1
47.5°	11672.2	11777.0	12196.1	13021.0	13633.2	13868.3	13705.1	13518.0	13025.5	13552.4	9655.7
50°	10076.4	10199.1	11143.7	12574.9	13736.5	14592.8	14607.8	14330.8	12983.5	13068.9	9185.6
52.5°	7977.6	8061.4	8601.8	10660.2	12723.1	14562.9	15161.7	14865.3	12781.4	12464.1	8597.3
55°	4768.0	4902.7	5407.2	7032.9	9911.7	12907.2	14182.6	14326.4	12682.6	11956.6	8196.1
57.5°	1609.3	1675.2	2157.2	3106.3	5841.3	9450.6	10958.1	11541.9	11513.5	11181.1	7413.2
60°	766.5	781.4	878.7	1178.1	2338.3	4938.6	6486.5	7160.2	7774.0	7835.3	4612.3
62.5°	583.8	592.8	642.2	706.6	940.1	2080.8	2973.1	3488.0	3726.1	3197.6	1679.6
65°	488.0	495.5	532.9	573.4	639.2	901.2	1140.7	1315.9	1185.6	923.7	800.9
67.5°	407.2	413.2	441.6	485.0	529.9	603.3	633.2	651.2	682.6	766.5	736.5
70°	318.9	324.9	354.8	392.2	435.6	453.6	482.0	500.0	562.9	670.7	667.7
72.5°	245.5	253.0	269.5	293.4	329.3	347.3	378.7	399.7	435.6	522.5	558.4
75°	179.6	184.1	199.1	206.6	211.1	206.6	238.0	262.0	309.9	342.8	351.8
77.5°	73.4	82.3	79.3	79.3	94.3	113.8	130.2	145.2	178.1	197.6	199.1
80°	29.9	32.9	38.9	43.4	52.4	67.4	77.8	83.8	98.8	110.8	119.8
82.5°	18.0	19.5	22.5	24.0	29.9	38.9	44.9	49.4	61.4	73.4	77.8
85°	9.0	9.0	10.5	12.0	15.0	18.0	21.0	24.0	31.4	38.9	43.4
87.5°	1.5	1.5	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	15.0
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°	5640.7	5640.7	5640.7	5640.7	5640.7	5640.7	5640.7	5640.7	5640.7	5640.7	5640.7
2.5°	5643.7	5562.9	5468.6	5393.7	5306.9	5242.5	5151.2	5094.3	5040.4	4995.5	4962.6
5°	5649.7	5513.5	5317.4	5143.7	4964.1	4793.4	4618.3	4476.1	4348.8	4242.5	4233.5
7.5°	5684.1	5488.0	5181.1	4877.2	4526.9	4188.6	3850.3	3574.9	3365.3	3256.0	3233.5
10°	5742.5	5485.0	5041.9	4556.9	3959.6	3414.7	3013.5	2803.9	2682.6	2639.2	2624.3
12.5°	5803.9	5477.5	4863.8	4104.8	3275.5	2797.9	2577.8	2552.4	2574.9	2577.8	2576.3
15°	5878.7	5473.1	4639.2	3574.9	2775.5	2512.0	2526.9	2580.8	2633.2	2645.2	2645.2
17.5°	5970.1	5462.6	4333.8	3056.9	2462.6	2456.6	2535.9	2607.8	2657.2	2666.2	2666.2
20°	6065.9	5435.6	3958.1	2634.7	2335.3	2422.2	2507.5	2562.9	2597.3	2609.3	2610.8
22.5°	6131.7	5363.8	3525.5	2321.9	2256.0	2356.3	2417.7	2474.6	2474.6	2444.6	2435.6
25°	6145.2	5209.6	3056.9	2107.8	2161.7	2254.5	2317.4	2284.4	2223.1	2199.1	2197.6
27.5°	6095.8	4985.0	2594.3	1955.1	2047.9	2140.7	2130.2	2082.3	2055.4	2031.4	2040.4
30°	6035.9	4715.6	2193.1	1829.3	1916.2	2007.5	1971.6	1955.1	1935.6	1908.7	1914.7
32.5°	5995.5	4414.7	1884.7	1732.0	1827.8	1842.8	1868.3	1866.8	1848.8	1797.9	1794.9
35°	6007.5	4110.8	1678.1	1652.7	1754.5	1748.5	1796.4	1787.4	1663.2	1592.8	1588.3
37.5°	6103.3	3818.9	1556.9	1589.8	1637.7	1675.2	1717.1	1609.3	1565.9	1521.0	1524.0
40°	6285.9	3547.9	1491.0	1555.4	1567.4	1622.8	1525.5	1524.0	1504.5	1464.1	1462.6
42.5°	6492.5	3318.9	1446.1	1538.9	1522.5	1532.9	1429.6	1441.6	1440.1	1414.7	1407.2
45°	6618.3	3107.8	1410.2	1477.5	1482.0	1377.2	1345.8	1359.3	1366.8	1353.3	1351.8
47.5°	6488.0	2865.3	1372.8	1383.2	1422.2	1306.9	1268.0	1269.5	1282.9	1284.4	1278.4
50°	6122.8	2594.3	1327.8	1302.4	1276.9	1233.5	1197.6	1190.1	1203.6	1217.1	1221.6
52.5°	5651.2	2335.3	1253.0	1214.1	1154.2	1154.2	1137.7	1113.8	1131.7	1149.7	1155.7
55°	5305.4	2143.7	1146.7	1103.3	1037.4	1059.9	1056.9	1035.9	1059.9	1073.4	1077.8
57.5°	4597.3	1723.1	1009.0	995.5	940.1	967.1	973.1	946.1	934.1	937.1	941.6
60°	2729.0	1112.3	910.2	908.7	859.3	890.7	908.7	881.7	845.8	850.3	856.3
62.5°	1224.6	850.3	785.9	779.9	778.4	818.9	838.3	812.9	762.0	766.5	772.5
65°	771.0	735.0	682.6	682.6	706.6	741.0	756.0	735.0	676.6	669.2	675.2
67.5°	715.6	684.1	630.2	619.8	631.7	660.2	661.7	621.3	586.8	580.8	580.8
70°	642.2	618.3	565.9	544.9	540.4	538.9	534.4	524.0	501.5	495.5	498.5
72.5°	531.4	515.0	482.0	459.6	447.6	446.1	428.1	419.2	399.7	396.7	395.2
75°	351.8	356.3	356.3	353.3	342.8	338.3	318.9	309.9	287.4	278.4	276.9
77.5°	208.1	212.6	218.6	220.1	218.6	218.6	200.6	190.1	167.7	155.7	152.7
80°	127.2	130.2	133.2	137.7	131.7	127.2	110.8	100.3	89.8	82.3	80.8
82.5°	82.3	85.3	86.8	89.8	86.8	80.8	67.4	61.4	53.9	47.9	46.4
85°	46.4	47.9	50.9	50.9	46.4	41.9	34.4	29.9	25.4	22.5	22.5
87.5°	16.5	16.5	16.5	18.0	15.0	13.5	9.0	6.0	4.5	4.5	4.5
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)