

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: P642455

Luminaire Tested: GWS-SA6C-830-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-830-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23000.3 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.2
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

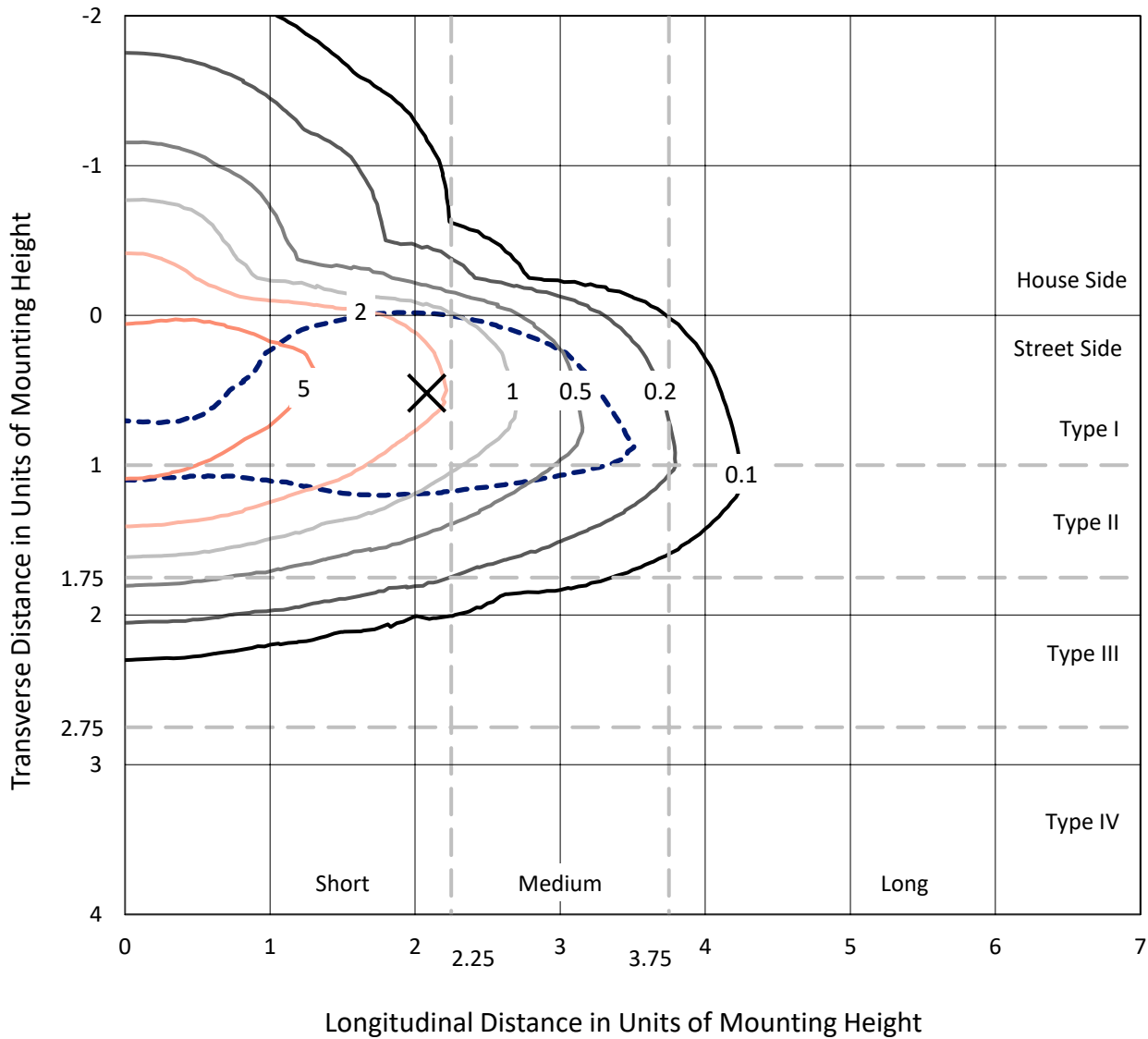


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Iso-Footcandle Lines of Horizontal Illumination

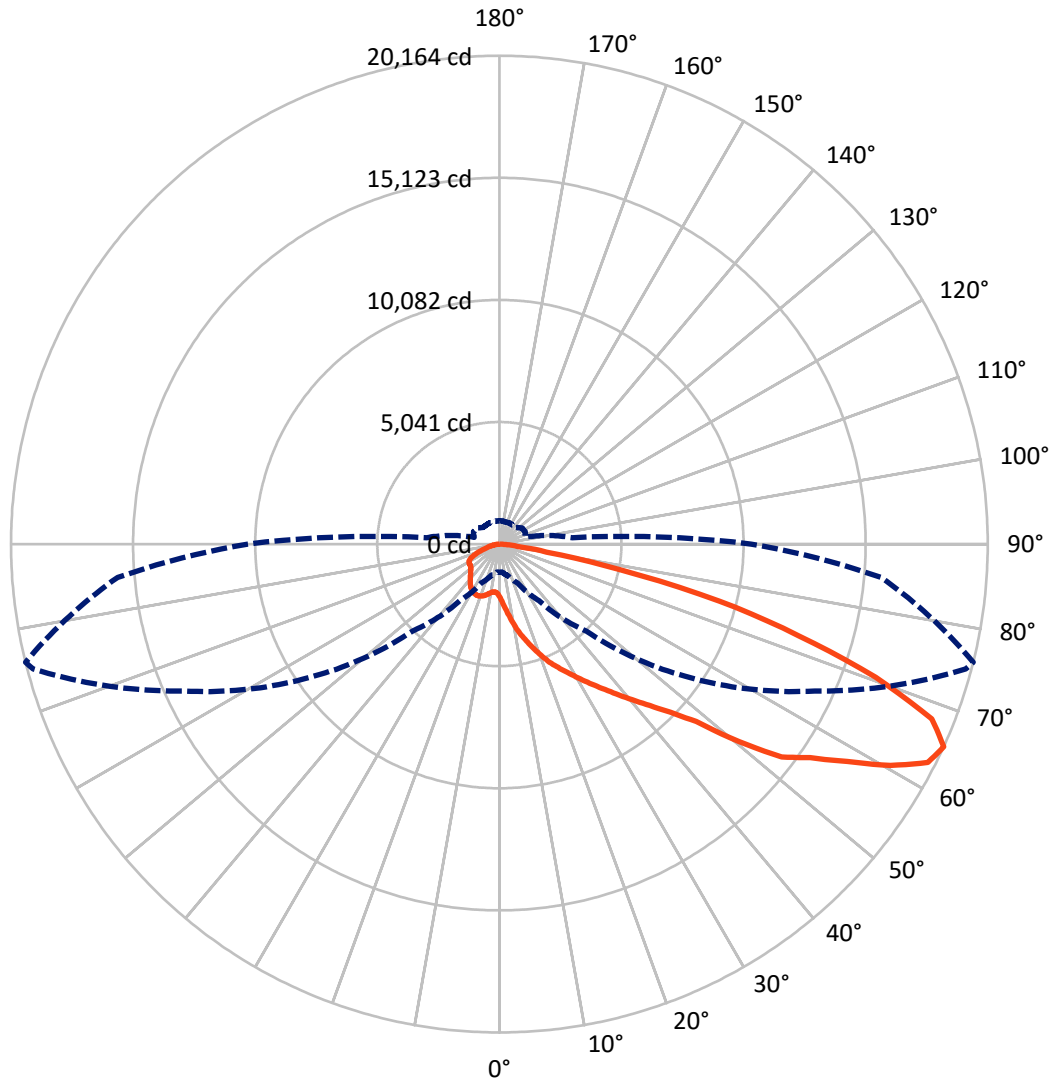
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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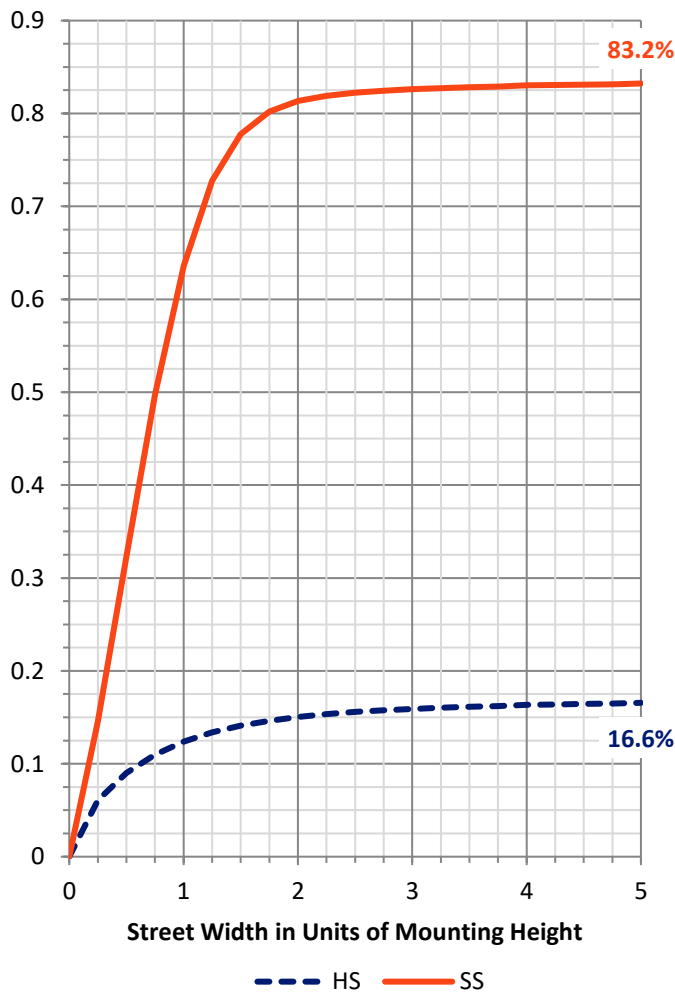
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3844.5	0.0	3844.5
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	19155.8	0.0	19155.8
	% Fixture	83.3	0.0	83.3
Total	Lumens	23000.3	0.0	23000.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	1.1
10°-20°	985.6	4.3
20°-30°	1920.8	8.4
30°-40°	3212.4	14.0
40°-50°	4599.6	20.0
50°-60°	5445.2	23.7
60°-70°	4527.8	19.7
70°-80°	1852.9	8.1
80°-90°	197.3	0.9
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°	23000.3	100.0
0°-180°	23000.3	100.0

Coefficient of Utilization



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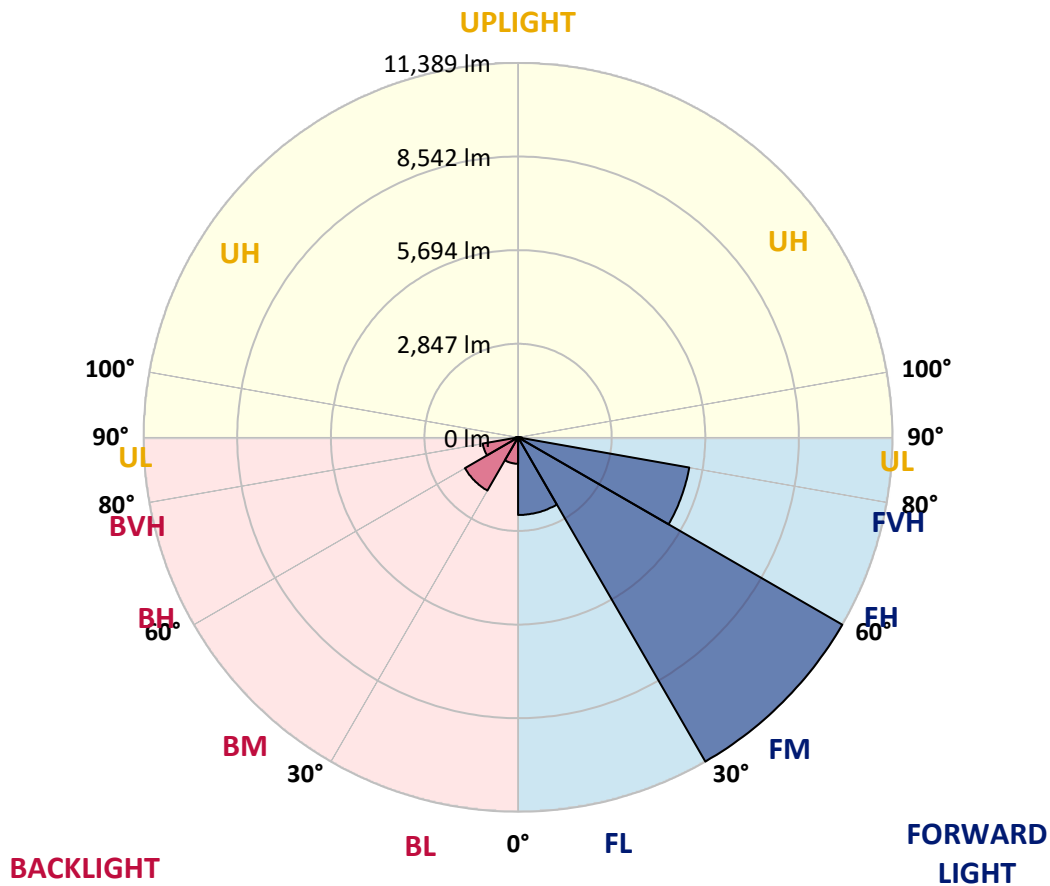
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2360.9	10.3			
FM (30°-60°)	11388.9	49.5			
FH (60°-80°)	5288.4	23.0			G3/7500
FVH (80°-90°)	117.7	0.5			G2/225
BL (0°-30°)	804.3	3.5	B2/1000		
BM (30°-60°)	1868.4	8.1	B2/2500		
BH (60°-80°)	1092.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	79.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0
2.5°	3052.8	3064.1	3026.9	3014.0	2926.7	2808.7	2710.0	2561.3	2423.8	2402.8	2279.9
5°	3877.5	3829.0	3786.9	3759.4	3638.2	3503.9	3295.4	3015.6	2723.0	2687.4	2422.2
7.5°	4367.4	4359.3	4307.6	4291.4	4197.6	4063.4	3848.4	3500.7	3075.5	3017.2	2614.6
10°	4760.3	4755.5	4729.6	4744.2	4658.5	4527.5	4318.9	3959.9	3461.9	3403.7	2829.7
12.5°	5103.1	5111.2	5106.4	5159.7	5116.1	5014.2	4797.5	4403.0	3848.4	3785.3	3091.6
15°	5353.8	5360.2	5384.5	5500.9	5525.1	5504.1	5284.2	4837.9	4230.0	4139.4	3361.7
17.5°	5424.9	5437.8	5496.0	5683.6	5814.6	5901.9	5738.6	5281.0	4605.1	4506.5	3636.5
20°	5520.3	5534.8	5593.1	5788.7	5981.1	6180.0	6150.9	5730.5	4983.5	4902.6	3914.7
22.5°	5961.7	5950.4	5924.5	6018.3	6155.8	6403.2	6475.9	6162.2	5374.8	5297.2	4221.9
25°	6812.2	6791.2	6626.3	6540.6	6495.3	6645.7	6775.1	6555.2	5756.4	5640.0	4508.1
27.5°	7750.1	7738.8	7528.6	7324.8	7046.7	6982.0	7058.0	6897.9	6126.7	6008.6	4757.1
30°	8637.8	8603.8	8383.9	8128.5	7756.6	7478.4	7366.9	7234.3	6532.5	6409.6	5048.1
32.5°	9431.7	9388.1	9129.3	8846.4	8456.7	8128.5	7795.4	7591.6	6991.7	6849.4	5345.7
35°	10083.4	10039.7	9774.5	9473.8	9045.3	8802.7	8346.7	7979.7	7459.0	7315.1	5696.5
37.5°	10587.8	10547.4	10270.9	9975.0	9601.5	9409.1	9012.9	8416.3	7997.5	7847.1	6068.4
40°	10870.8	10841.7	10620.2	10385.7	10072.0	9905.5	9727.6	8967.7	8600.6	8450.2	6506.6
42.5°	10956.5	10937.1	10781.9	10660.6	10448.8	10322.7	10424.5	9616.1	9244.2	9113.2	6999.8
45°	10741.5	10741.5	10696.2	10757.6	10767.3	10765.7	11123.1	10348.5	10034.8	9890.9	7695.1
47.5°	10191.7	10227.3	10293.6	10595.9	10914.5	11181.3	11939.6	11325.2	11051.9	10933.9	8679.8
50°	9185.9	9283.0	9509.3	10099.5	10777.0	11456.2	12712.5	12769.1	13029.5	12820.9	10128.6
52.5°	7712.9	7698.3	8275.6	9116.4	10149.6	11467.5	13137.8	14043.3	14743.4	14599.5	11205.5
55°	6129.9	6105.6	6644.1	7803.4	9187.6	11034.1	13393.3	14627.0	15694.2	15564.8	12174.1
57.5°	4694.0	4663.3	5141.9	6188.1	7829.3	10114.1	13344.8	15322.3	17002.3	16936.0	13490.3
60°	3230.7	3193.5	3641.4	4556.6	6222.1	8707.3	12807.9	15679.6	18533.6	18556.2	14898.7
62.5°	1940.4	1919.3	2244.3	2954.2	4475.7	6964.2	11551.6	15463.0	19752.8	19854.6	15804.2
65°	1170.7	1156.1	1346.9	1762.5	2839.4	5082.1	9614.4	14355.4	19929.0	20163.5	15825.2
67.5°	852.1	853.8	908.7	1073.7	1655.8	3282.4	7214.9	12369.7	19010.6	19253.1	14827.5
70°	740.6	743.8	772.9	810.1	1000.9	1878.9	4690.8	9764.8	16295.7	16483.3	12436.0
72.5°	658.1	658.1	677.5	696.9	782.6	1144.8	2512.8	6825.2	12861.3	12911.4	9491.5
75°	578.9	574.0	583.7	593.4	679.1	800.4	1222.4	4755.5	9499.6	9383.2	6134.7
77.5°	460.8	456.0	457.6	467.3	544.9	572.4	619.3	2970.4	5353.8	5053.0	2710.0
80°	328.2	325.0	342.8	367.0	402.6	350.9	388.1	1437.5	2123.1	1975.9	1051.0
82.5°	195.7	202.1	229.6	249.0	278.1	219.9	250.6	480.2	751.9	732.5	426.9
85°	27.5	29.1	82.5	95.4	119.7	85.7	132.6	216.7	300.8	321.8	150.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.3	38.8	85.7	87.3	37.2
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°	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0
2.5°	2216.9	2140.9	2032.5	1942.0	1866.0	1804.5	1752.8	1714.0	1702.7	1686.5	1686.5
5°	2297.7	2160.3	1966.2	1828.8	1749.5	1702.7	1670.3	1654.1	1646.1	1636.4	1631.5
7.5°	2409.3	2216.9	1954.9	1815.8	1754.4	1725.3	1704.3	1694.6	1688.1	1678.4	1678.4
10°	2562.9	2300.9	1990.5	1861.1	1812.6	1783.5	1759.3	1743.1	1728.5	1714.0	1710.7
12.5°	2729.4	2410.9	2055.2	1922.6	1870.8	1835.2	1801.3	1777.0	1759.3	1741.5	1736.6
15°	2913.8	2524.1	2124.7	1982.4	1917.7	1869.2	1828.8	1791.6	1767.3	1741.5	1738.2
17.5°	3094.9	2638.9	2182.9	2022.8	1940.4	1880.5	1822.3	1773.8	1743.1	1714.0	1705.9
20°	3311.5	2753.7	2223.3	2034.1	1935.5	1856.3	1786.7	1725.3	1691.3	1657.4	1652.5
22.5°	3510.4	2860.4	2242.7	2018.0	1898.3	1804.5	1723.7	1657.4	1620.2	1586.2	1579.8
25°	3702.8	2954.2	2234.6	1979.2	1841.7	1733.4	1649.3	1583.0	1547.4	1511.9	1502.2
27.5°	3888.8	3017.2	2202.3	1919.3	1770.6	1654.1	1573.3	1513.5	1482.8	1452.0	1439.1
30°	4071.5	3075.5	2152.2	1841.7	1680.0	1571.7	1505.4	1463.3	1432.6	1400.3	1390.6
32.5°	4255.8	3117.5	2076.2	1751.2	1587.9	1498.9	1458.5	1427.8	1395.4	1363.1	1353.4
35°	4441.8	3135.3	1984.0	1647.7	1510.2	1452.0	1437.5	1401.9	1358.2	1319.4	1306.5
37.5°	4663.3	3151.5	1869.2	1545.8	1442.3	1429.4	1426.2	1372.8	1321.1	1267.7	1253.1
40°	4930.1	3172.5	1751.2	1453.6	1387.4	1421.3	1408.4	1335.6	1232.1	1180.4	1164.2
42.5°	5256.7	3211.3	1628.3	1369.6	1346.9	1390.6	1376.0	1245.1	1175.5	1146.4	1138.3
45°	5737.0	3353.6	1505.4	1303.3	1316.2	1346.9	1324.3	1191.7	1164.2	1144.8	1135.1
47.5°	6592.3	3571.9	1398.7	1253.1	1292.0	1308.1	1220.8	1177.1	1156.1	1130.3	1118.9
50°	7481.7	3667.3	1313.0	1222.4	1264.5	1272.5	1164.2	1157.7	1143.2	1115.7	1104.4
52.5°	8083.2	3654.3	1261.2	1211.1	1241.8	1211.1	1138.3	1136.7	1127.0	1094.7	1081.7
55°	8762.3	3677.0	1238.6	1214.3	1232.1	1107.6	1106.0	1110.9	1106.0	1070.4	1064.0
57.5°	9679.1	3746.5	1227.3	1225.7	1225.7	1057.5	1075.3	1081.7	1072.0	1055.9	1051.0
60°	10560.4	3751.3	1206.3	1238.6	1220.8	1026.8	1039.7	1046.2	1034.9	1031.6	1030.0
62.5°	10891.8	3518.5	1159.4	1228.9	1201.4	992.8	1002.5	1005.7	994.4	1002.5	1000.9
65°	10398.7	3023.7	1081.7	1182.0	1141.6	962.1	955.6	963.7	944.3	965.3	966.9
67.5°	9232.8	2402.8	963.7	1093.1	1057.5	928.1	915.2	915.2	882.9	915.2	913.6
70°	7444.5	1697.8	790.7	950.8	965.3	887.7	881.2	844.1	792.3	840.8	836.0
72.5°	5643.2	1219.2	622.5	751.9	831.1	831.1	832.7	769.7	709.8	732.5	713.1
75°	3575.1	858.6	498.0	575.6	651.6	729.2	766.4	650.0	596.7	587.0	577.3
77.5°	1610.5	564.3	388.1	441.4	462.5	575.6	700.1	559.5	486.7	465.7	459.2
80°	674.3	350.9	276.5	312.1	284.6	483.5	617.7	435.0	357.3	328.2	307.2
82.5°	295.9	208.6	176.2	168.2	177.9	359.0	460.8	289.4	223.1	302.4	305.6
85°	124.5	110.0	90.5	82.5	72.8	137.4	216.7	113.2	139.1	79.2	64.7
87.5°	29.1	32.3	24.3	16.2	9.7	1.6	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)