

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: P639481

Luminaire Tested: GWS-SA5B-830-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639481  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-830-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

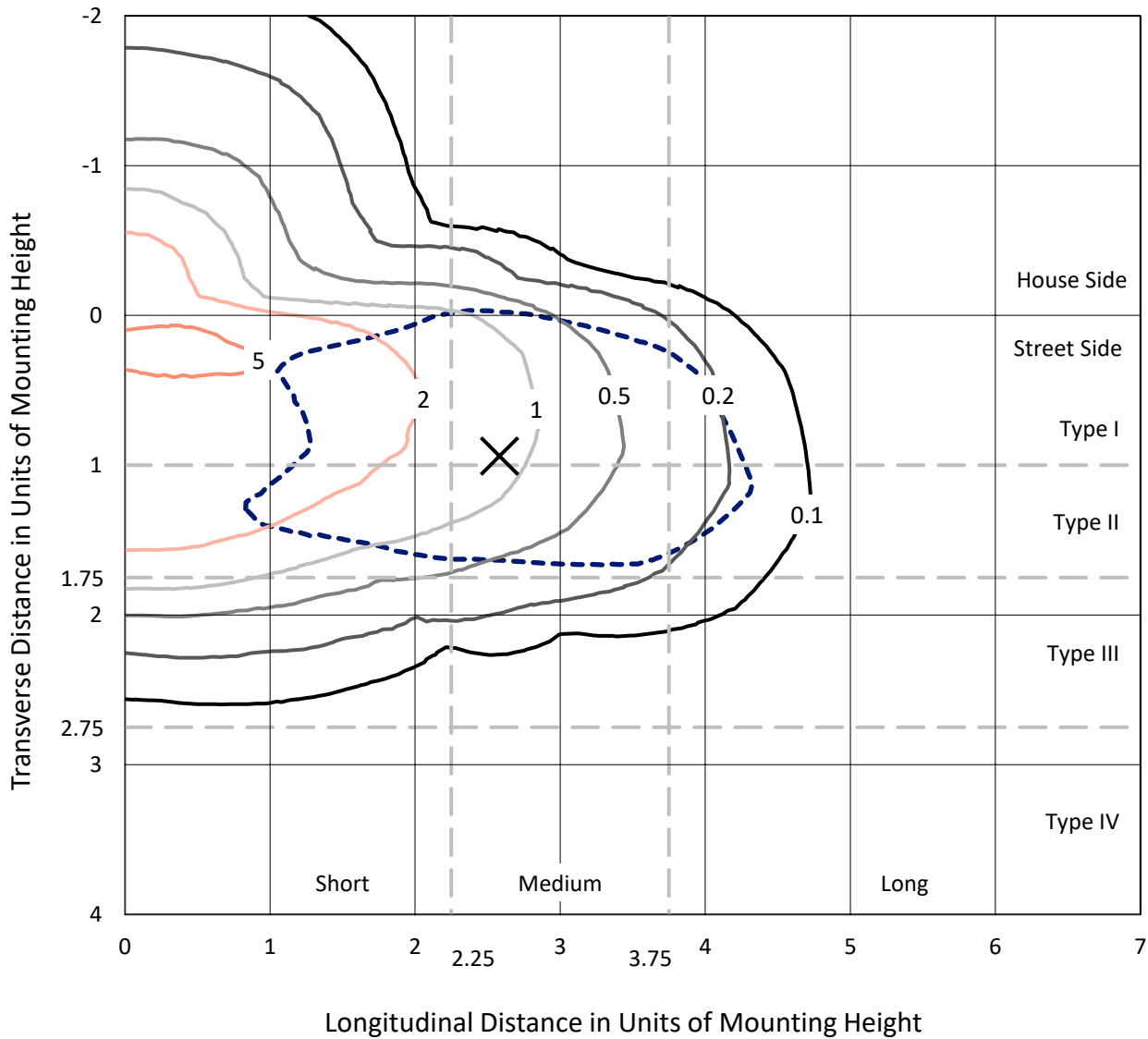
Lumens per Lamp: N/A  
Luminaire Lumens: 13994.3 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P639481  
 CATALOG NUMBER: GWS-SA5B-830-U-T2-W

### Iso-Footcandle Lines of Horizontal Illumination

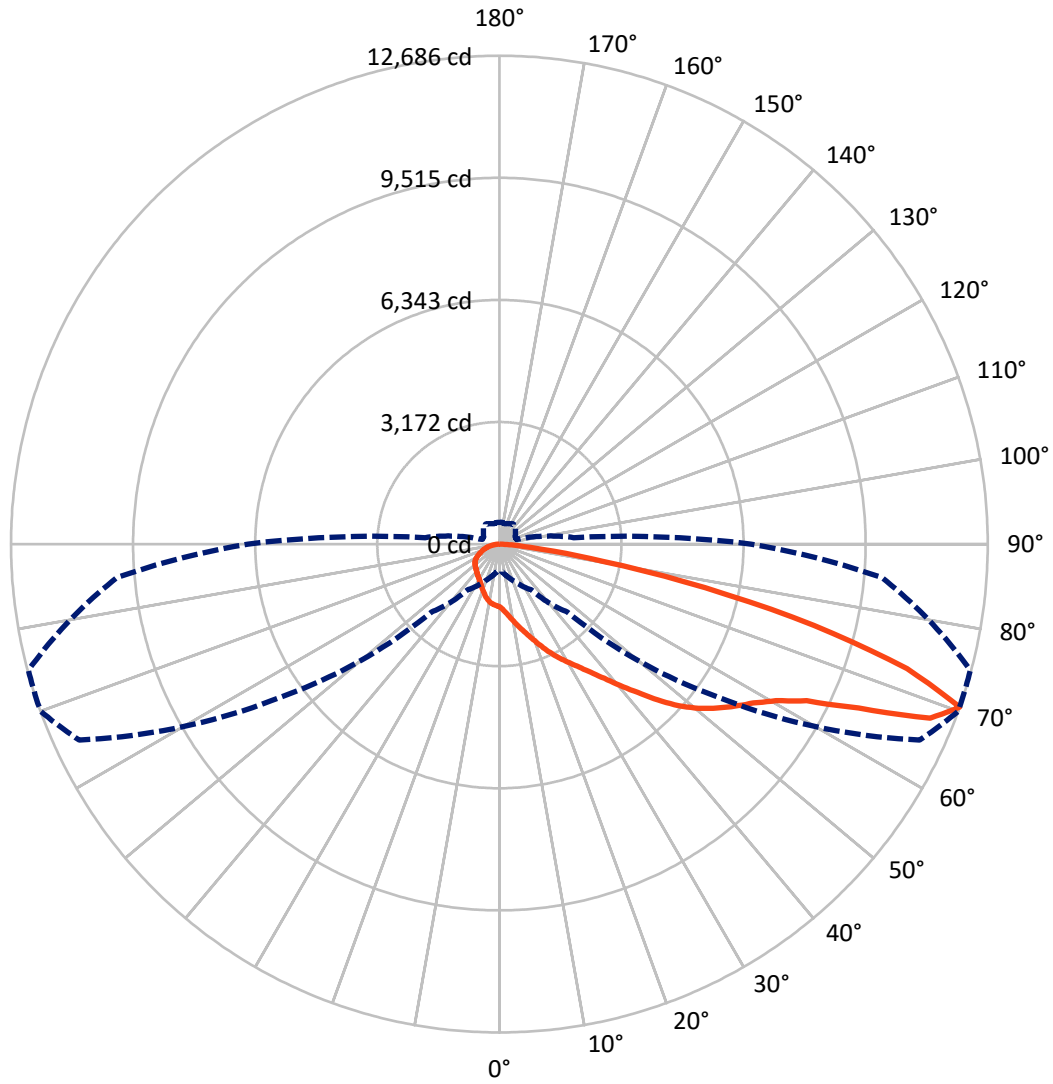
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P639481  
CATALOG NUMBER: GWS-SA5B-830-U-T2-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P639481

CATALOG NUMBER: GWS-SA5B-830-U-T2-W

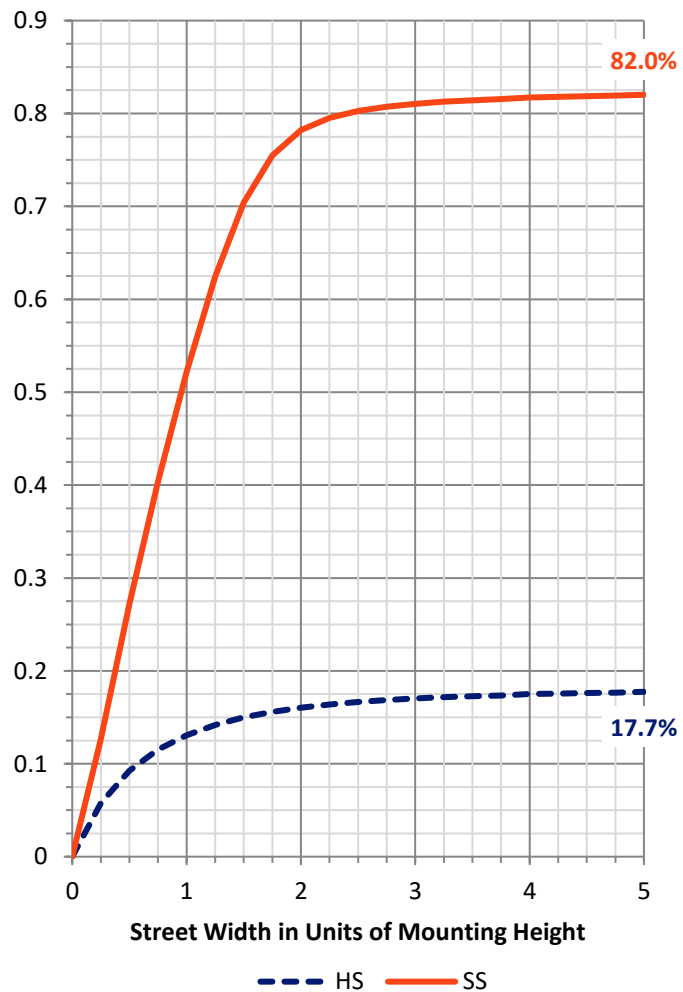
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2507.8	0.0	2507.8
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	11486.5	0.0	11486.5
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	13994.3	0.0	13994.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.9	1.2
10°-20°	539.6	3.9
20°-30°	955.9	6.8
30°-40°	1438.7	10.3
40°-50°	2176.5	15.6
50°-60°	3118.0	22.3
60°-70°	3446.6	24.6
70°-80°	1945.0	13.9
80°-90°	208.0	1.5
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°	13994.3	100.0
0°-180°	13994.3	100.0

**Coefficient of Utilization**



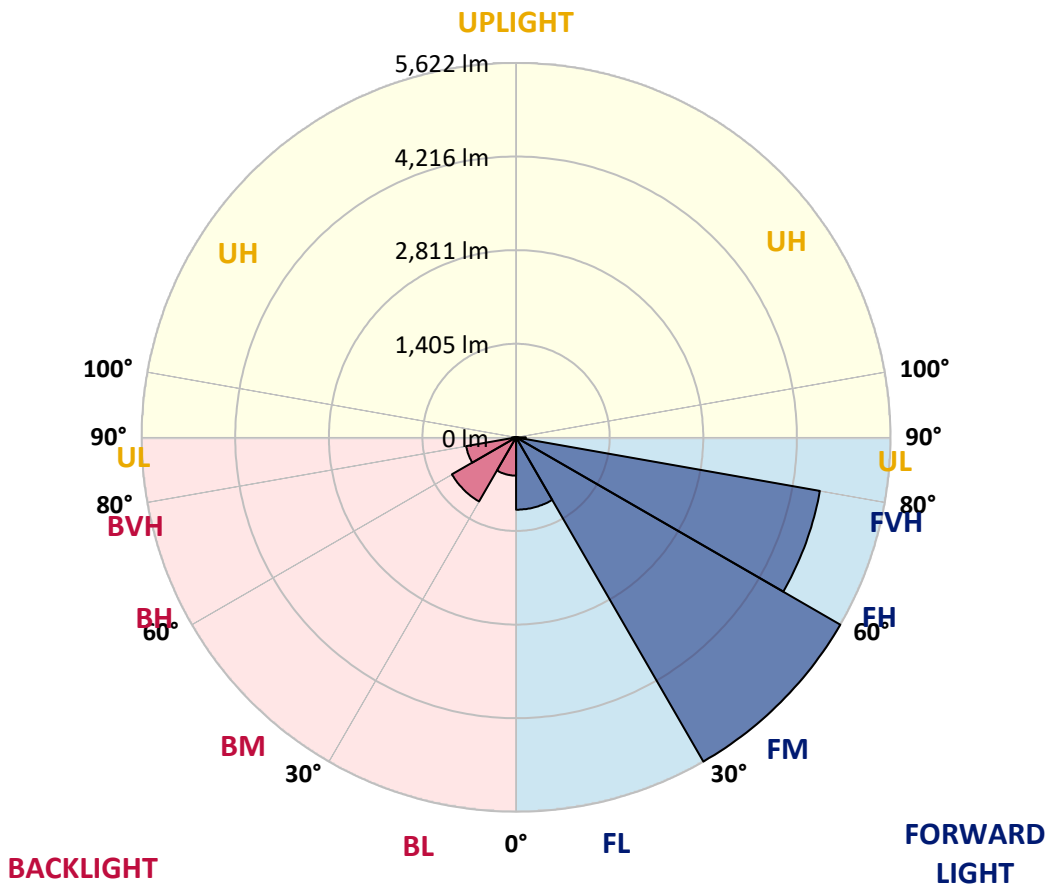
REPORT NUMBER: P639481

CATALOG NUMBER: GWS-SA5B-830-U-T2-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.4	7.8			
FM (30°-60°)	5621.5	40.2			
FH (60°-80°)	4631.5	33.1			G2/5000
FVH (80°-90°)	147.1	1.1			G2/225
BL (0°-30°)	575.0	4.1	B2/1000		
BM (30°-60°)	1111.7	7.9	B2/2500		
BH (60°-80°)	760.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	61.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Medium





REPORT NUMBER: P639481  
 CATALOG NUMBER: GWS-SA5B-830-U-T2-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1632.0	1632.0	1632.0	1632.0	1632.0	1632.0	1632.0	1632.0	1632.0	1632.0	1632.0
2.5°	1808.0	1804.9	1807.0	1804.9	1793.8	1766.5	1744.3	1716.0	1696.7	1685.6	1659.3
5°	2020.3	2017.3	2010.2	2000.1	1979.9	1942.5	1886.8	1825.2	1787.7	1759.4	1703.8
7.5°	2173.0	2173.0	2172.0	2159.9	2145.7	2106.3	2040.5	1959.6	1905.0	1856.5	1765.5
10°	2250.9	2255.9	2263.0	2280.2	2277.2	2255.9	2194.2	2107.3	2038.5	1981.9	1846.4
12.5°	2293.3	2296.4	2308.5	2343.9	2380.3	2385.3	2348.9	2257.9	2183.1	2107.3	1936.4
15°	2347.9	2348.9	2365.1	2407.6	2461.2	2514.8	2505.7	2414.7	2337.8	2253.9	2036.5
17.5°	2390.4	2397.5	2426.8	2476.4	2543.1	2616.9	2661.4	2604.8	2509.7	2413.7	2145.7
20°	2405.6	2410.6	2449.0	2524.9	2615.9	2720.0	2819.1	2804.0	2707.9	2594.7	2269.1
22.5°	2460.2	2460.2	2488.5	2552.2	2659.4	2811.0	2971.8	3011.3	2926.3	2793.9	2401.5
25°	2580.5	2576.5	2589.6	2615.9	2696.8	2883.9	3122.5	3240.8	3145.7	2997.1	2534.0
27.5°	2745.3	2743.3	2742.3	2746.3	2773.6	2947.6	3249.9	3455.2	3360.1	3192.3	2652.3
30°	2924.3	2918.2	2931.4	2919.2	2913.2	3023.4	3358.1	3647.3	3573.5	3385.4	2750.4
32.5°	3168.0	3156.9	3153.8	3114.4	3090.1	3141.7	3445.0	3865.7	3807.0	3593.7	2860.6
35°	3489.5	3479.4	3427.9	3365.2	3293.4	3317.6	3553.2	4079.1	4083.1	3854.6	3005.2
37.5°	3814.1	3816.1	3775.7	3628.1	3554.3	3540.1	3718.1	4338.9	4425.9	4166.0	3192.3
40°	4084.1	4096.2	4096.2	3940.5	3830.3	3817.2	3949.6	4647.3	4820.2	4548.2	3428.9
42.5°	4289.4	4300.5	4335.9	4223.6	4107.4	4152.9	4230.7	4956.7	5267.2	5020.4	3728.2
45°	4514.9	4524.0	4543.2	4478.5	4410.7	4532.1	4549.2	5326.8	5778.8	5550.3	4076.0
47.5°	4814.2	4806.1	4808.1	4760.6	4708.0	4904.2	4900.1	5638.3	6273.3	6130.7	4453.2
50°	5186.3	5201.4	5187.3	5093.3	5031.6	5210.5	5233.8	5983.1	6708.1	6705.1	4833.4
52.5°	5544.2	5550.3	5625.1	5629.2	5502.8	5465.4	5526.0	6330.9	7075.1	7230.9	5198.4
55°	5562.4	5585.7	5810.2	5972.0	6176.2	5875.9	5821.3	6662.6	7430.1	7745.5	5577.6
57.5°	5175.2	5212.6	5593.8	5942.6	6510.9	6580.7	6326.9	7091.3	7785.0	8252.1	6016.4
60°	4348.0	4425.9	4943.6	5477.5	6360.2	7087.3	7361.3	7673.8	8251.1	8769.9	6549.3
62.5°	2776.7	2807.0	3533.0	4426.9	5681.8	7037.7	8487.7	8700.1	8961.0	9444.3	7370.4
65°	1390.4	1487.4	1913.1	2642.2	4097.3	6201.5	9057.0	10579.9	10260.3	10599.1	8701.1
67.5°	943.4	974.8	1190.1	1587.5	2402.5	4393.5	8704.1	12163.3	12069.3	12124.9	10119.8
70°	695.7	715.9	885.8	1124.4	1453.0	2494.6	6929.5	12044.0	12686.1	12665.9	9971.1
72.5°	507.6	517.7	646.1	858.5	1076.9	1290.3	4231.7	9729.5	11074.3	11657.8	8720.3
75°	369.1	381.2	449.0	642.1	837.2	804.9	2089.1	7027.6	8445.3	9567.7	7104.5
77.5°	275.0	290.2	321.6	402.4	586.5	576.4	903.0	4563.4	5462.3	6249.0	4315.7
80°	198.2	201.2	219.4	257.8	372.1	337.7	429.7	2379.3	2728.1	2989.0	1691.7
82.5°	120.3	123.4	146.6	158.8	230.5	212.3	223.5	770.5	1104.2	1171.9	632.0
85°	35.4	37.4	66.7	72.8	96.1	91.0	90.0	313.5	374.1	478.3	248.7
87.5°	0.0	0.0	0.0	0.0	1.0	6.1	11.1	55.6	83.9	116.3	60.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P639481  
 CATALOG NUMBER: GWS-SA5B-830-U-T2-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1632.0	1632.0	1632.0	1632.0	1632.0	1632.0	1632.0	1632.0	1632.0	1632.0	1632.0
2.5°	1649.2	1626.0	1613.8	1592.6	1577.4	1562.3	1547.1	1532.9	1526.9	1517.8	1519.8
5°	1678.5	1642.1	1605.7	1564.3	1528.9	1499.6	1473.3	1450.0	1439.9	1430.8	1434.8
7.5°	1723.0	1668.4	1598.7	1522.8	1467.2	1426.8	1399.5	1383.3	1378.2	1371.1	1371.1
10°	1779.7	1697.8	1575.4	1467.2	1400.5	1368.1	1356.0	1355.0	1360.0	1361.0	1359.0
12.5°	1842.3	1726.1	1541.0	1401.5	1344.9	1334.7	1343.8	1361.0	1378.2	1387.3	1385.3
15°	1907.1	1744.3	1482.4	1338.8	1304.4	1317.6	1346.9	1381.3	1414.6	1431.8	1430.8
17.5°	1967.7	1748.3	1406.5	1278.1	1269.0	1302.4	1352.9	1406.5	1452.0	1476.3	1477.3
20°	2035.5	1741.2	1328.7	1223.5	1233.6	1288.2	1355.0	1419.7	1473.3	1497.5	1503.6
22.5°	2097.2	1717.0	1252.8	1171.9	1203.3	1271.0	1338.8	1399.5	1447.0	1470.2	1478.3
25°	2152.8	1670.4	1169.9	1128.5	1180.0	1246.8	1298.3	1340.8	1374.2	1388.3	1399.5
27.5°	2183.1	1600.7	1107.2	1094.1	1157.8	1212.4	1240.7	1253.8	1265.0	1260.9	1269.0
30°	2189.2	1513.7	1052.6	1066.8	1124.4	1164.9	1170.9	1157.8	1138.6	1107.2	1114.3
32.5°	2183.1	1413.6	1007.1	1037.5	1087.0	1111.3	1103.2	1068.8	1022.3	973.8	976.8
35°	2185.1	1312.5	969.7	1005.1	1043.5	1056.7	1036.4	988.9	939.4	894.9	892.9
37.5°	2207.4	1227.6	938.4	973.8	1001.1	1003.1	980.8	931.3	906.0	872.6	868.6
40°	2269.1	1164.9	910.1	942.4	959.6	958.6	933.3	897.9	915.1	904.0	901.0
42.5°	2370.2	1126.4	886.8	909.0	921.2	923.2	903.0	880.7	918.1	904.0	898.9
45°	2533.0	1124.4	870.6	875.7	894.9	909.0	894.9	869.6	883.8	815.0	801.9
47.5°	2726.1	1158.8	858.5	846.3	879.7	905.0	882.7	842.3	813.0	750.3	741.2
50°	2958.7	1228.6	847.4	815.0	857.5	889.8	867.6	812.0	767.5	734.1	729.1
52.5°	3234.7	1320.6	833.2	779.6	824.1	881.7	867.6	808.9	750.3	720.0	714.9
55°	3523.9	1426.8	817.0	737.1	786.7	883.8	874.7	787.7	737.1	721.0	716.9
57.5°	3882.9	1554.2	787.7	687.6	753.3	865.6	846.3	775.6	728.0	714.9	710.9
60°	4349.0	1743.3	732.1	637.0	714.9	833.2	821.1	755.3	703.8	692.7	689.6
62.5°	5087.2	2063.8	664.3	588.5	669.4	765.5	783.7	716.9	673.4	672.4	671.4
65°	6290.5	2449.0	584.5	545.0	621.9	709.8	734.1	677.5	642.1	653.2	652.2
67.5°	7133.8	2482.4	518.7	499.5	566.3	649.2	684.6	637.0	598.6	619.8	618.8
70°	6534.2	1936.4	462.1	452.0	506.6	583.4	631.0	586.5	548.1	568.3	564.2
72.5°	5510.9	1484.4	408.5	402.4	445.9	514.7	562.2	535.9	495.5	495.5	486.4
75°	4428.9	1224.5	351.9	348.9	378.2	444.9	498.5	454.0	416.6	414.6	408.5
77.5°	2540.1	802.9	295.3	293.2	302.3	372.1	387.3	378.2	349.9	336.7	332.7
80°	1012.2	417.6	232.6	219.4	228.5	273.0	305.4	290.2	265.9	249.8	240.7
82.5°	392.3	209.3	163.8	143.6	156.7	197.2	221.4	216.4	200.2	163.8	153.7
85°	159.8	102.1	98.1	82.9	91.0	106.2	127.4	110.2	91.0	64.7	61.7
87.5°	42.5	37.4	36.4	22.2	17.2	5.1	1.0	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)