

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: P636841

Luminaire Tested: GWS-SA4B-750-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636841  
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-SA4B-750-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

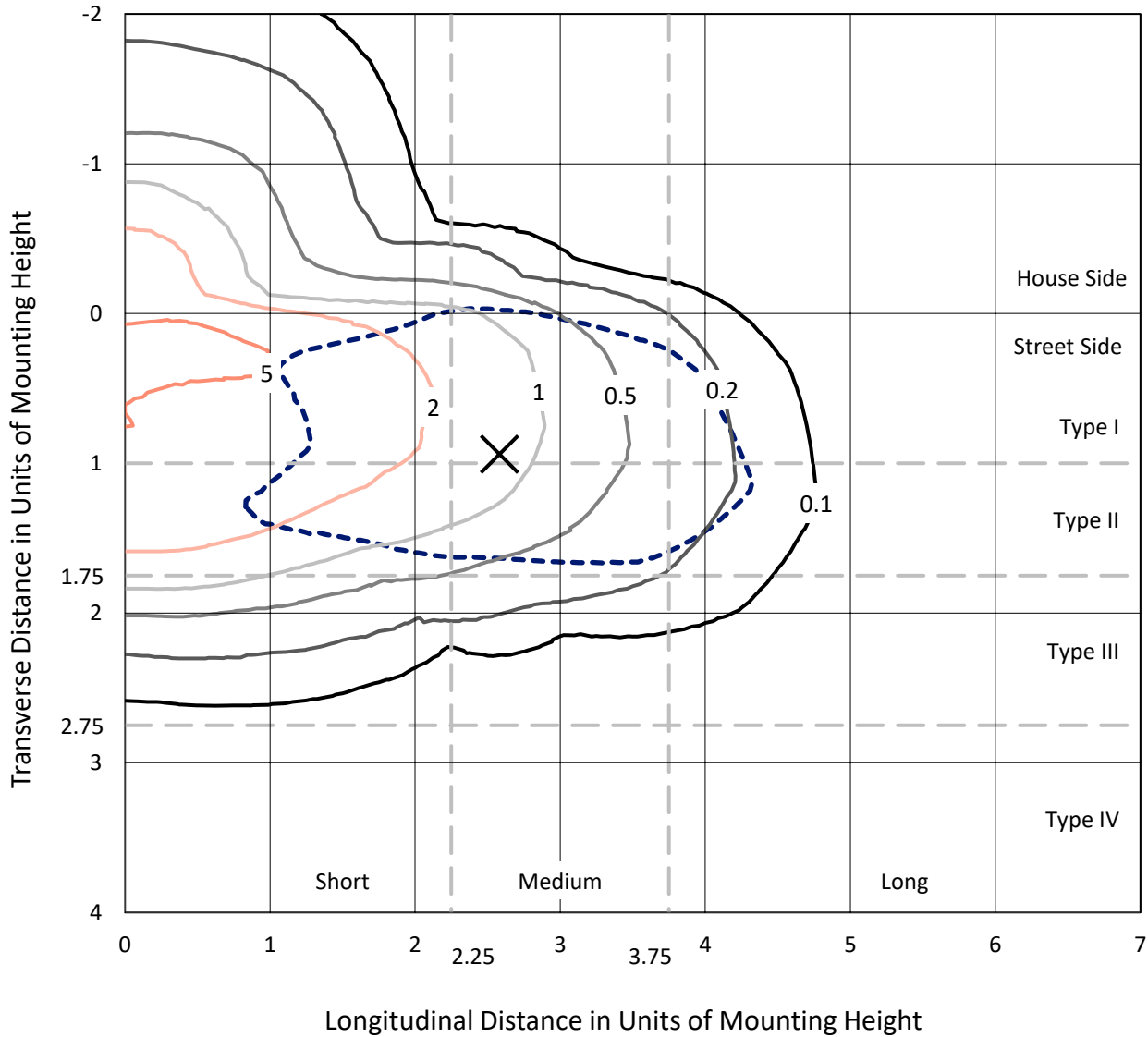
Lumens per Lamp: N/A  
Luminaire Lumens: 14689.8 lumens  
Efficiency: N/A  
Efficacy: 155.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

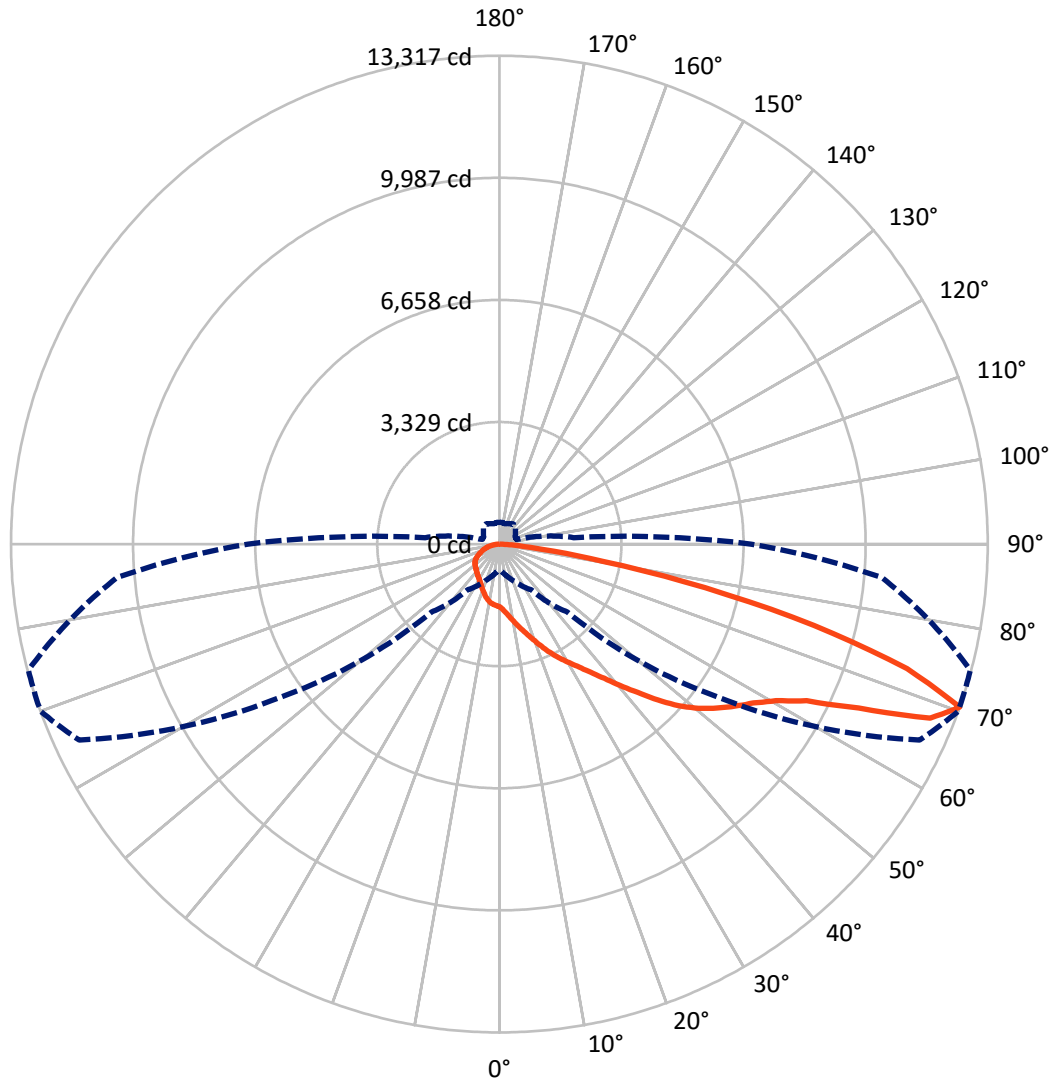
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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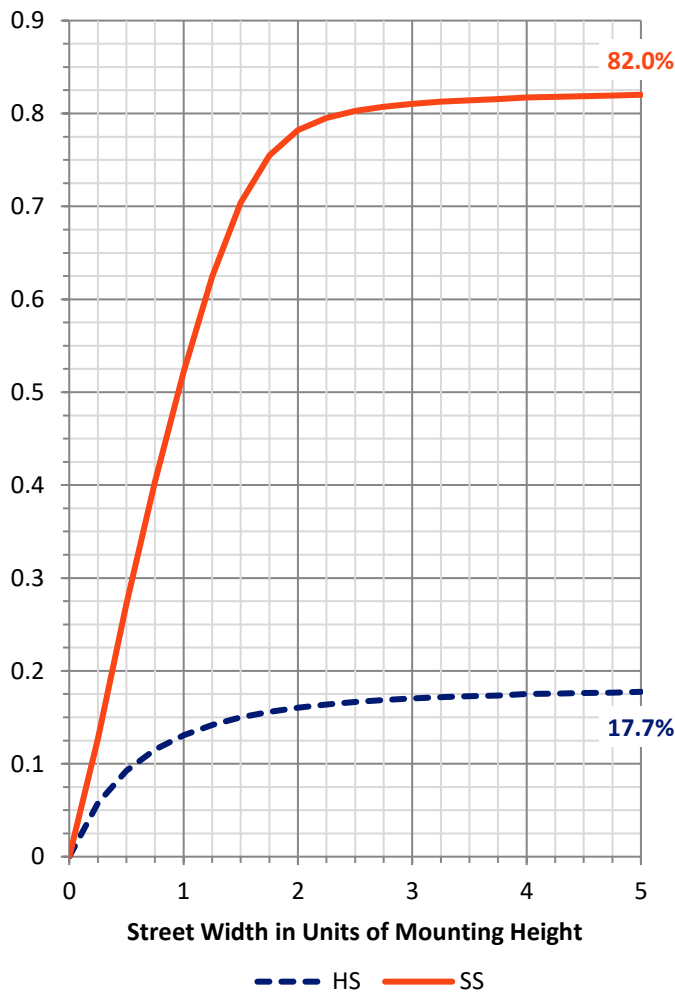
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2632.5	0.0	2632.5
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	12057.4	0.0	12057.4
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	14689.8	0.0	14689.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.1	1.2
10°-20°	566.4	3.9
20°-30°	1003.4	6.8
30°-40°	1510.2	10.3
40°-50°	2284.7	15.6
50°-60°	3273.0	22.3
60°-70°	3617.9	24.6
70°-80°	2041.7	13.9
80°-90°	218.4	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°	14689.8	100.0
0°-180°	14689.8	100.0

**Coefficient of Utilization**



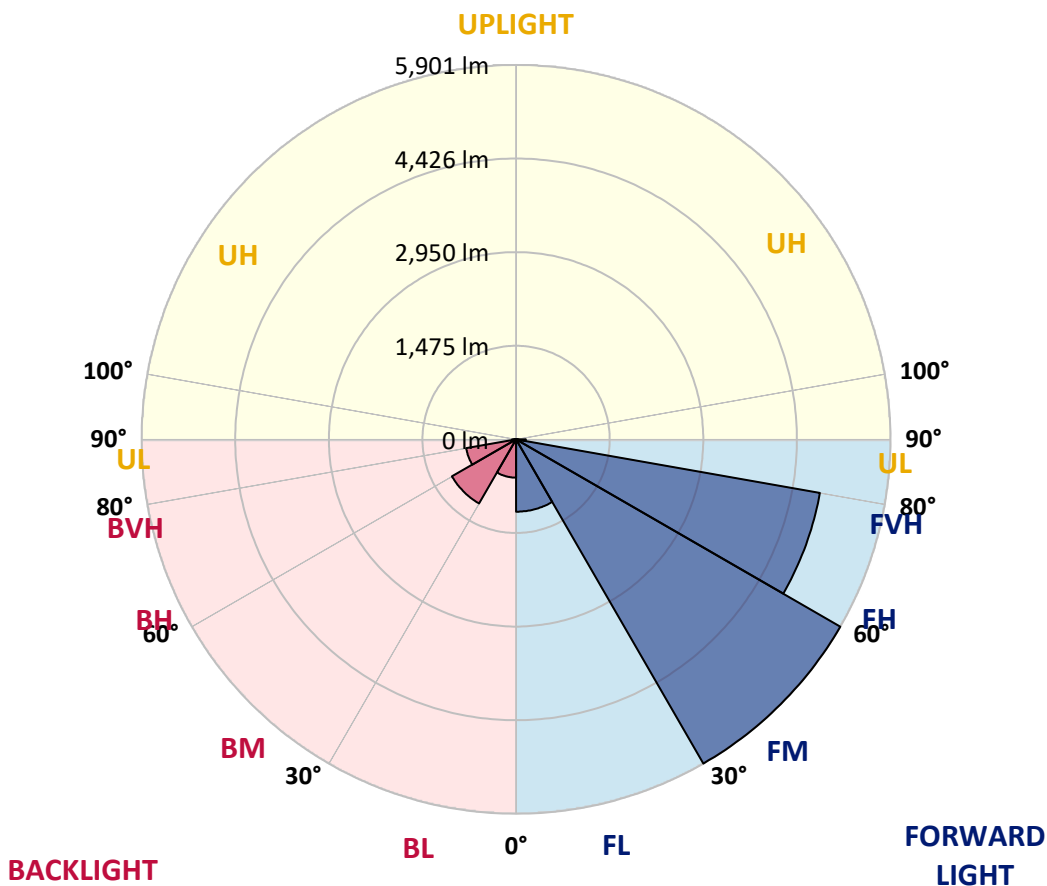
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1140.4	7.8			
FM (30°-60°)	5900.9	40.2			
FH (60°-80°)	4861.7	33.1			G2/5000
FVH (80°-90°)	154.4	1.1			G2/225
BL (0°-30°)	603.6	4.1	B2/1000		
BM (30°-60°)	1167.0	7.9	B2/2500		
BH (60°-80°)	797.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	64.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1
2.5°	1897.8	1894.6	1896.8	1894.6	1883.0	1854.3	1831.0	1801.2	1781.1	1769.4	1741.8
5°	2120.7	2117.5	2110.1	2099.5	2078.3	2039.0	1980.6	1915.9	1876.6	1846.9	1788.5
7.5°	2281.0	2281.0	2279.9	2267.2	2252.3	2210.9	2141.9	2057.0	1999.7	1948.8	1853.2
10°	2362.7	2368.0	2375.5	2393.5	2390.3	2368.0	2303.3	2212.0	2139.8	2080.4	1938.2
12.5°	2407.3	2410.5	2423.2	2460.4	2498.6	2503.9	2465.7	2370.2	2291.6	2212.0	2032.6
15°	2464.6	2465.7	2482.7	2527.2	2583.5	2639.8	2630.2	2534.7	2454.0	2365.9	2137.7
17.5°	2509.2	2516.6	2547.4	2599.4	2669.5	2747.0	2793.7	2734.2	2634.4	2533.6	2252.3
20°	2525.1	2530.4	2570.8	2650.4	2745.9	2855.2	2959.2	2943.3	2842.5	2723.6	2381.8
22.5°	2582.4	2582.4	2612.2	2679.0	2791.5	2950.8	3119.5	3160.9	3071.8	2932.7	2520.9
25°	2708.7	2704.5	2718.3	2745.9	2830.8	3027.2	3277.7	3401.9	3302.1	3146.1	2659.9
27.5°	2881.8	2879.6	2878.6	2882.8	2911.5	3094.0	3411.4	3626.9	3527.1	3350.9	2784.1
30°	3069.6	3063.3	3077.1	3064.3	3058.0	3173.7	3525.0	3828.5	3751.1	3553.6	2887.1
32.5°	3325.4	3313.8	3310.6	3269.2	3243.7	3297.8	3616.3	4057.8	3996.3	3772.3	3002.8
35°	3663.0	3652.4	3598.2	3532.4	3457.1	3482.5	3729.8	4281.8	4286.0	4046.1	3154.5
37.5°	4003.7	4005.8	3963.3	3808.4	3730.9	3716.0	3902.8	4554.6	4645.8	4373.1	3350.9
40°	4287.1	4299.8	4299.8	4136.4	4020.7	4006.9	4145.9	4878.3	5059.8	4774.3	3599.3
42.5°	4502.6	4514.2	4551.4	4433.6	4311.5	4359.3	4441.0	5203.1	5528.9	5270.0	3913.5
45°	4739.2	4748.8	4769.0	4701.0	4629.9	4757.3	4775.3	5591.6	6066.0	5826.1	4278.6
47.5°	5053.4	5044.9	5047.1	4997.2	4942.0	5147.9	5143.7	5918.5	6585.1	6435.4	4674.5
50°	5444.0	5460.0	5445.1	5346.4	5281.6	5469.5	5493.9	6280.4	7041.5	7038.3	5073.6
52.5°	5819.8	5826.1	5904.7	5908.9	5776.3	5737.0	5800.7	6645.6	7426.8	7590.2	5456.8
55°	5838.9	5863.3	6098.9	6268.8	6483.2	6167.9	6110.6	6993.7	7799.3	8130.5	5854.8
57.5°	5432.4	5471.6	5871.8	6238.0	6834.5	6907.7	6641.3	7443.8	8171.9	8662.3	6315.5
60°	4564.1	4645.8	5189.3	5749.7	6676.3	7439.5	7727.2	8055.1	8661.2	9205.7	6874.8
62.5°	2914.7	2946.5	3708.6	4646.9	5964.1	7387.5	8909.6	9132.5	9406.3	9913.7	7736.7
65°	1459.5	1561.4	2008.2	2773.5	4300.9	6509.7	9507.2	11105.7	10770.2	11125.8	9133.5
67.5°	990.3	1023.2	1249.3	1666.4	2521.9	4611.9	9136.7	12767.8	12669.1	12727.5	10622.7
70°	730.3	751.5	929.8	1180.3	1525.3	2618.5	7273.9	12642.6	13316.6	13295.4	10466.7
72.5°	532.8	543.4	678.2	901.1	1130.4	1354.4	4442.1	10213.0	11624.7	12237.1	9153.7
75°	387.4	400.2	471.3	674.0	878.9	844.9	2192.9	7376.9	8865.0	10043.2	7457.5
77.5°	288.7	304.6	337.5	422.4	615.6	605.0	947.8	4790.2	5733.8	6559.6	4530.1
80°	208.0	211.2	230.3	270.7	390.6	354.5	451.1	2497.5	2863.7	3137.6	1775.8
82.5°	126.3	129.5	153.9	166.6	242.0	222.9	234.6	808.8	1159.1	1230.2	663.4
85°	37.1	39.3	70.1	76.4	100.8	95.5	94.5	329.0	392.7	502.1	261.1
87.5°	0.0	0.0	0.0	0.0	1.1	6.4	11.7	58.4	88.1	122.1	63.7
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°	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1	1713.1
2.5°	1731.2	1706.8	1694.0	1671.7	1655.8	1639.9	1624.0	1609.1	1602.7	1593.2	1595.3
5°	1762.0	1723.7	1685.5	1642.0	1604.9	1574.1	1546.5	1522.1	1511.5	1501.9	1506.2
7.5°	1808.7	1751.3	1678.1	1598.5	1540.1	1497.7	1469.0	1452.0	1446.7	1439.3	1439.3
10°	1868.1	1782.1	1653.7	1540.1	1470.1	1436.1	1423.4	1422.3	1427.6	1428.7	1426.6
12.5°	1933.9	1811.8	1617.6	1471.1	1411.7	1401.1	1410.6	1428.7	1446.7	1456.3	1454.1
15°	2001.8	1831.0	1556.0	1405.3	1369.2	1383.0	1413.8	1449.9	1484.9	1503.0	1501.9
17.5°	2065.5	1835.2	1476.4	1341.6	1332.1	1367.1	1420.2	1476.4	1524.2	1549.7	1550.7
20°	2136.6	1827.8	1394.7	1284.3	1294.9	1352.3	1422.3	1490.2	1546.5	1572.0	1578.3
22.5°	2201.4	1802.3	1315.1	1230.2	1263.1	1334.2	1405.3	1469.0	1518.9	1543.3	1551.8
25°	2259.8	1753.5	1228.1	1184.5	1238.7	1308.7	1362.9	1407.4	1442.5	1457.3	1469.0
27.5°	2291.6	1680.2	1162.3	1148.5	1215.3	1272.6	1302.4	1316.2	1327.8	1323.6	1332.1
30°	2298.0	1588.9	1104.9	1119.8	1180.3	1222.8	1229.1	1215.3	1195.2	1162.3	1169.7
32.5°	2291.6	1483.9	1057.2	1089.0	1141.0	1166.5	1158.0	1121.9	1073.1	1022.1	1025.3
35°	2293.7	1377.7	1017.9	1055.1	1095.4	1109.2	1088.0	1038.1	986.1	939.4	937.2
37.5°	2317.1	1288.6	985.0	1022.1	1050.8	1052.9	1029.6	977.6	951.0	916.0	911.8
40°	2381.8	1222.8	955.3	989.2	1007.3	1006.2	979.7	942.5	960.6	948.9	945.7
42.5°	2488.0	1182.4	930.9	954.2	967.0	969.1	947.8	924.5	963.8	948.9	943.6
45°	2658.9	1180.3	913.9	919.2	939.4	954.2	939.4	912.8	927.7	855.5	841.7
47.5°	2861.6	1216.4	901.1	888.4	923.4	950.0	926.6	884.2	853.4	787.6	778.0
50°	3105.7	1289.6	889.5	855.5	900.1	934.1	910.7	852.3	805.6	770.6	765.3
52.5°	3395.5	1386.2	874.6	818.4	865.1	925.6	910.7	849.1	787.6	755.7	750.4
55°	3699.1	1497.7	857.6	773.8	825.8	927.7	918.1	826.8	773.8	756.8	752.5
57.5°	4075.9	1631.4	826.8	721.8	790.8	908.6	888.4	814.1	764.2	750.4	746.2
60°	4565.2	1829.9	768.5	668.7	750.4	874.6	861.9	792.9	738.7	727.1	723.9
62.5°	5340.0	2166.4	697.4	617.7	702.7	803.5	822.6	752.5	706.9	705.8	704.8
65°	6603.1	2570.8	613.5	572.1	652.8	745.1	770.6	711.2	674.0	685.7	684.6
67.5°	7488.3	2605.8	544.5	524.3	594.4	681.4	718.6	668.7	628.4	650.7	649.6
70°	6858.9	2032.6	485.1	474.5	531.8	612.4	662.3	615.6	575.3	596.5	592.3
72.5°	5784.7	1558.2	428.8	422.4	468.1	540.3	590.2	562.6	520.1	520.1	510.5
75°	4649.0	1285.4	369.4	366.2	397.0	467.0	523.3	476.6	437.3	435.2	428.8
77.5°	2666.3	842.8	309.9	307.8	317.4	390.6	406.5	397.0	367.3	353.5	349.2
80°	1062.5	438.4	244.1	230.3	239.9	286.6	320.5	304.6	279.2	262.2	252.6
82.5°	411.8	219.7	172.0	150.7	164.5	207.0	232.5	227.1	210.2	172.0	161.3
85°	167.7	107.2	103.0	87.0	95.5	111.4	133.7	115.7	95.5	67.9	64.7
87.5°	44.6	39.3	38.2	23.4	18.0	5.3	1.1	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)