

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: P632781

Luminaire Tested: GWS-SA2D-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-735-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10096.5 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.1
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

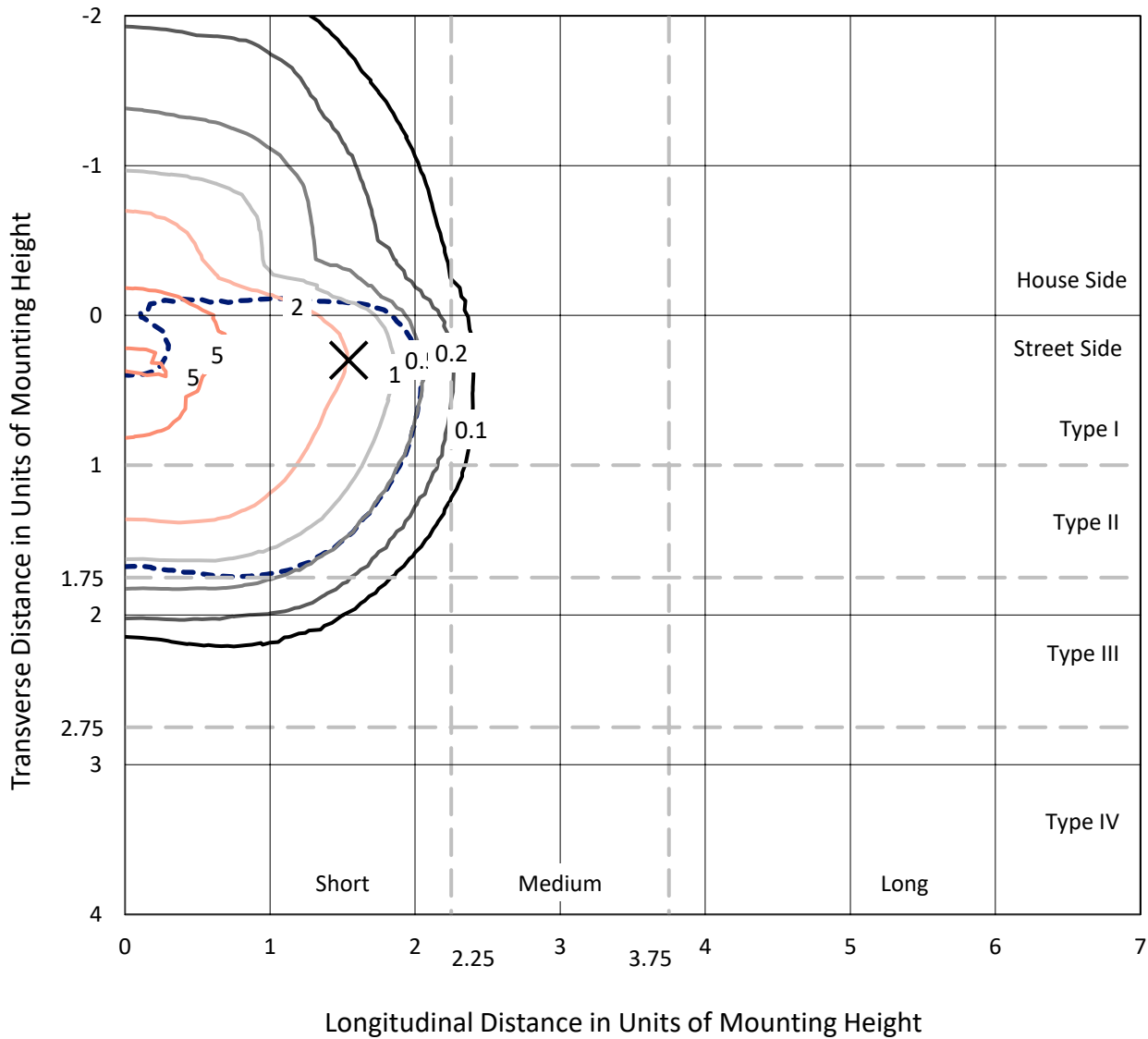


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Iso-Footcandle Lines of Horizontal Illumination

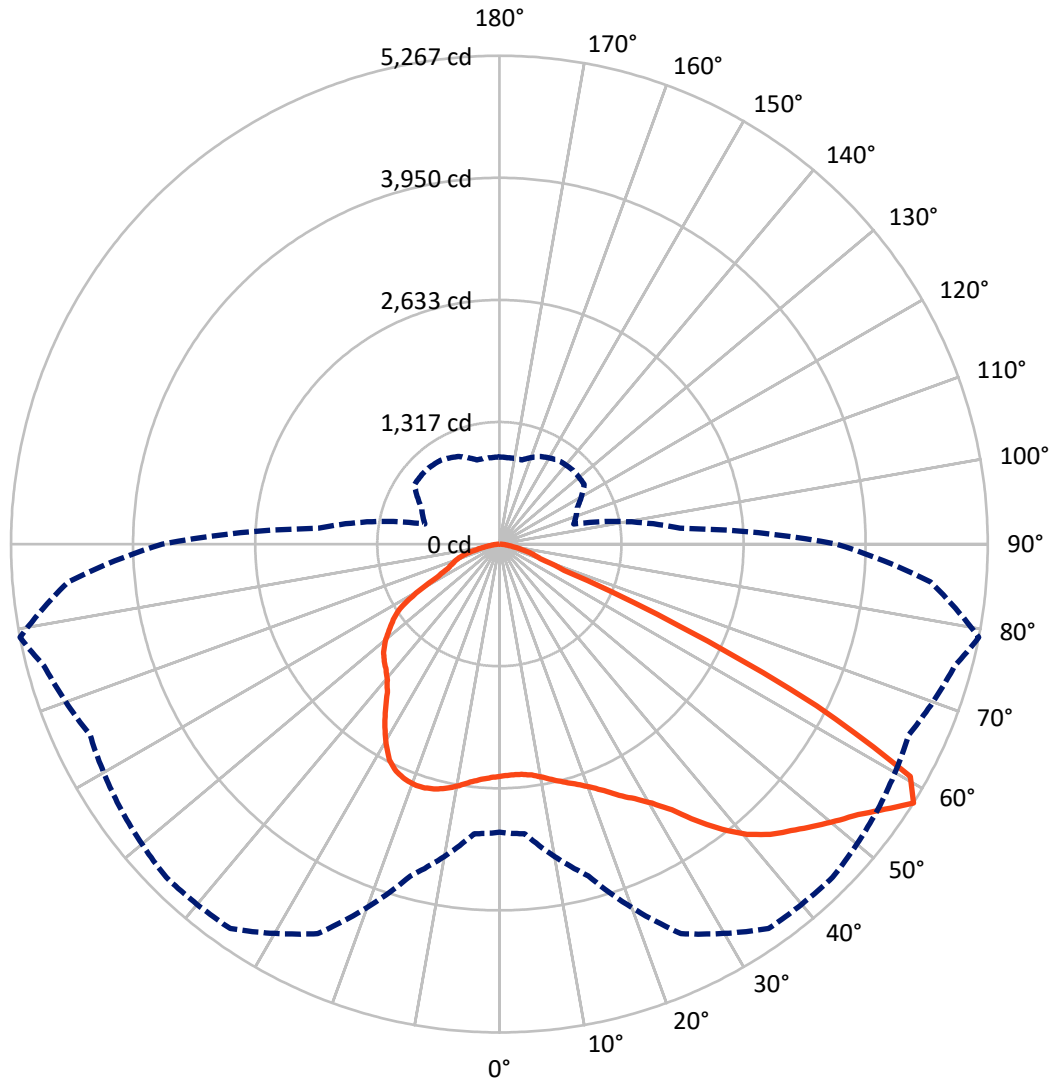
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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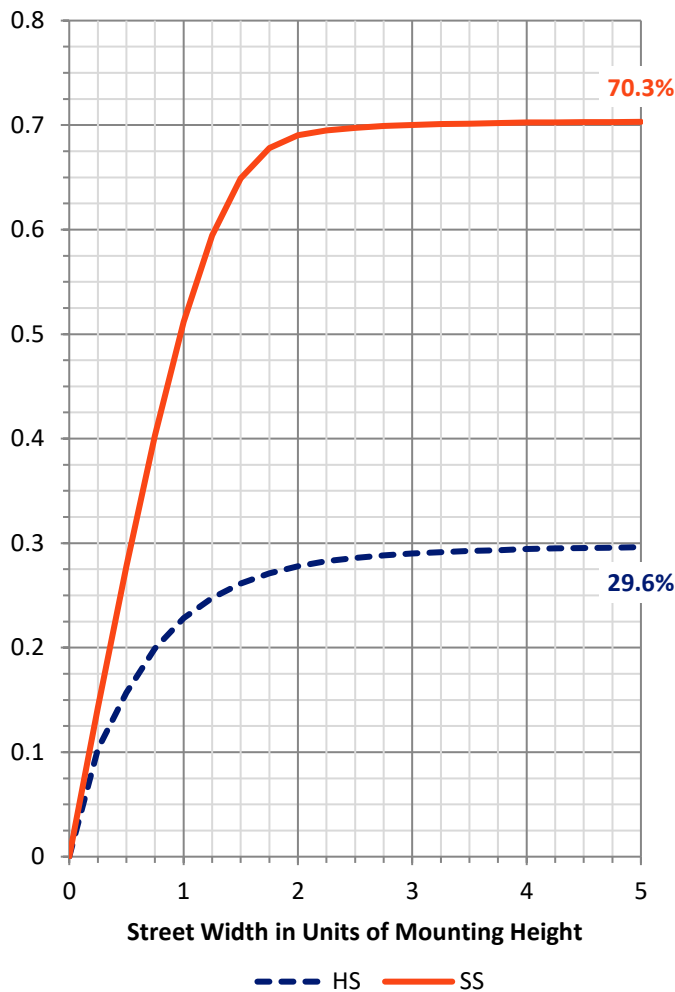
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3001.2	0.0	3001.2
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	7095.3	0.0	7095.3
	% Fixture	70.3	0.0	70.3
Total	Lumens	10096.5	0.0	10096.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	2.3
10°-20°	643.9	6.4
20°-30°	1091.5	10.8
30°-40°	1670.7	16.5
40°-50°	2227.7	22.1
50°-60°	2572.9	25.5
60°-70°	1337.0	13.2
70°-80°	284.2	2.8
80°-90°	36.8	0.4
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°	10096.5	100.0
0°-180°	10096.5	100.0

Coefficient of Utilization



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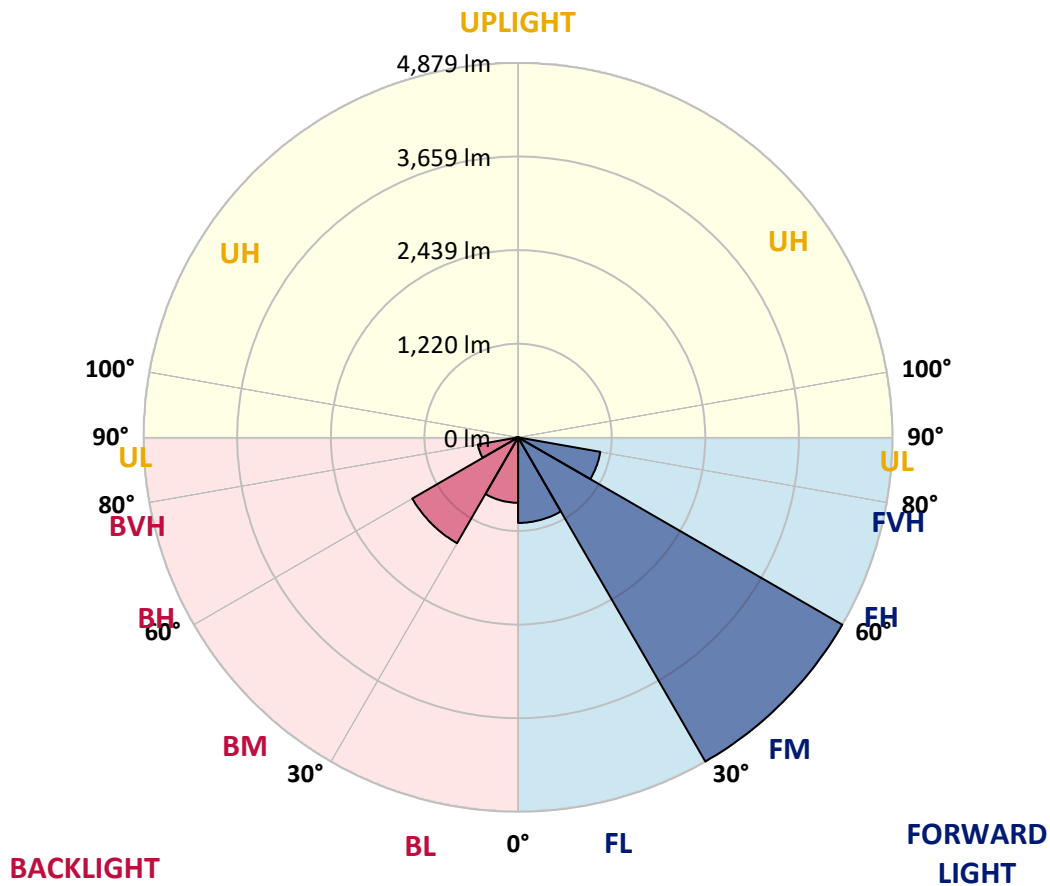
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.9	11.0			
FM (30°-60°)	4878.9	48.3			
FH (60°-80°)	1088.7	10.8			G1/1800
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	852.3	8.4	B2/1000		
BM (30°-60°)	1592.4	15.8	B2/2500		
BH (60°-80°)	532.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	24.0	0.2			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1
2.5°	2388.2	2383.3	2384.9	2391.5	2416.3	2434.5	2453.4	2470.8	2487.3	2492.2	2496.4
5°	2303.2	2294.1	2296.6	2307.3	2336.2	2366.8	2400.6	2441.9	2481.5	2494.7	2512.1
7.5°	2242.9	2241.3	2245.4	2261.9	2292.5	2321.4	2365.1	2423.7	2492.2	2514.5	2545.1
10°	2162.9	2159.6	2176.1	2209.9	2260.3	2306.5	2358.5	2427.8	2523.6	2556.6	2603.7
12.5°	2099.3	2097.6	2115.0	2162.0	2226.4	2299.9	2371.7	2449.3	2565.7	2611.1	2668.9
15°	2136.4	2129.0	2129.8	2162.9	2220.6	2307.3	2404.7	2488.1	2607.8	2665.6	2739.9
17.5°	2244.6	2231.4	2221.5	2227.2	2260.3	2350.3	2455.1	2540.1	2656.5	2724.2	2815.0
20°	2394.0	2386.6	2359.3	2341.2	2348.6	2427.8	2534.3	2613.6	2720.1	2796.0	2893.4
22.5°	2594.6	2576.4	2539.3	2510.4	2488.1	2550.0	2648.3	2716.8	2808.4	2887.7	2989.2
25°	2843.1	2816.7	2758.1	2712.7	2664.8	2728.3	2815.8	2867.9	2929.8	3003.2	3099.8
27.5°	3096.5	3074.2	3009.0	2947.9	2888.5	2928.1	3032.1	3061.8	3055.2	3108.9	3191.5
30°	3366.5	3338.4	3276.5	3210.4	3133.7	3159.3	3252.5	3267.4	3197.2	3241.8	3297.9
32.5°	3651.3	3624.0	3570.4	3493.6	3406.9	3416.8	3442.4	3456.4	3389.6	3415.2	3458.1
35°	3941.0	3915.4	3860.9	3785.0	3721.4	3661.2	3596.8	3652.9	3614.1	3663.7	3660.3
37.5°	4206.0	4180.4	4146.6	4088.0	3979.0	3860.1	3711.5	3780.9	3841.1	3903.9	3893.1
40°	4385.2	4367.8	4376.1	4367.0	4226.7	3991.4	3767.7	3843.6	4007.9	4115.2	4109.4
42.5°	4539.5	4522.2	4570.1	4604.7	4439.6	4112.7	3794.9	3867.6	4114.4	4282.0	4273.7
45°	4608.0	4603.1	4682.3	4792.1	4634.5	4241.5	3865.1	3917.1	4195.3	4409.9	4378.5
47.5°	4526.3	4543.7	4699.7	4885.4	4796.3	4394.2	4008.7	4021.9	4301.0	4548.6	4460.3
50°	4363.7	4401.7	4612.2	4887.9	4914.3	4566.8	4207.7	4174.6	4442.9	4696.4	4503.2
52.5°	4126.8	4166.4	4509.8	4868.9	4982.0	4766.5	4472.7	4425.6	4622.1	4844.1	4510.6
55°	3582.7	3636.4	4275.4	4826.0	5048.0	4948.2	4771.5	4675.7	4853.2	5047.2	4584.1
57.5°	3108.1	3136.1	3704.1	4635.3	5061.3	5081.9	4984.5	4870.6	5082.7	5266.8	4666.7
60°	2280.9	2287.5	2798.5	3835.4	4655.9	5004.3	4967.1	4797.9	4973.7	5091.0	4288.6
62.5°	1288.6	1289.5	1697.3	2559.9	3477.9	4078.9	4102.0	3952.6	3804.8	3839.5	2985.1
65°	483.8	529.2	775.2	1258.1	2005.2	2408.0	2503.8	2538.5	2292.5	2139.7	1600.7
67.5°	323.6	334.3	452.4	647.2	892.4	1030.2	1152.4	1155.7	845.3	753.7	630.7
70°	246.8	257.6	355.8	463.1	452.4	417.7	451.6	439.2	454.0	466.4	479.6
72.5°	184.1	194.8	275.7	326.9	271.6	267.5	303.0	336.8	368.2	381.4	402.0
75°	122.2	130.4	185.7	175.0	150.2	177.5	221.2	255.1	273.2	288.9	304.6
77.5°	77.6	83.4	99.1	80.1	83.4	104.0	128.8	159.3	176.7	192.3	200.6
80°	35.5	34.7	33.8	38.0	47.1	61.1	77.6	95.8	109.0	115.6	120.5
82.5°	14.0	15.7	17.3	20.6	25.6	33.0	43.8	56.1	66.9	68.5	72.6
85°	5.8	6.6	7.4	9.1	11.6	14.9	18.2	25.6	32.2	34.7	37.1
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	2.5	4.1	7.4	8.3	9.1
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°	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1
2.5°	2518.7	2507.9	2526.1	2538.5	2550.0	2537.6	2533.5	2522.8	2521.1	2521.1	2526.9
5°	2541.8	2534.3	2553.3	2560.8	2559.9	2532.7	2516.2	2494.7	2484.0	2484.0	2485.6
7.5°	2583.0	2578.9	2589.7	2578.1	2551.7	2496.4	2441.9	2396.5	2365.9	2350.3	2355.2
10°	2651.6	2646.6	2637.5	2594.6	2518.7	2403.9	2292.5	2209.9	2160.4	2132.3	2134.0
12.5°	2718.4	2710.2	2678.0	2583.0	2427.0	2244.6	2098.5	2006.0	1951.5	1918.5	1911.1
15°	2791.9	2770.4	2701.1	2523.6	2277.6	2049.8	1897.0	1797.2	1738.5	1718.7	1717.9
17.5°	2862.1	2824.1	2698.6	2417.9	2098.5	1845.9	1692.3	1630.4	1620.5	1629.6	1632.0
20°	2933.1	2872.0	2671.4	2271.8	1885.5	1642.8	1563.5	1589.1	1626.3	1651.0	1656.8
22.5°	3006.5	2911.6	2609.5	2083.6	1660.9	1505.7	1538.8	1594.9	1641.1	1674.2	1677.5
25°	3089.1	2948.8	2517.0	1853.3	1481.0	1467.8	1533.0	1592.4	1642.0	1679.9	1686.5
27.5°	3136.1	2949.6	2387.4	1616.4	1398.4	1452.9	1519.0	1575.1	1624.6	1665.9	1673.3
30°	3182.4	2927.3	2181.8	1424.0	1374.5	1435.6	1495.0	1547.0	1594.1	1634.5	1643.6
32.5°	3247.6	2906.7	1944.9	1313.4	1360.5	1419.1	1467.8	1514.0	1550.3	1568.5	1573.4
35°	3328.5	2880.2	1693.1	1265.5	1351.4	1405.9	1448.8	1473.6	1426.5	1416.6	1427.3
37.5°	3441.6	2855.5	1442.2	1244.9	1345.6	1400.9	1438.9	1375.3	1317.5	1294.4	1302.7
40°	3563.8	2841.4	1272.1	1228.4	1348.1	1405.9	1397.6	1303.5	1220.1	1171.4	1169.8
42.5°	3667.8	2820.0	1163.2	1217.6	1354.7	1424.8	1341.5	1239.9	1116.1	1087.2	1088.0
45°	3737.9	2765.5	1105.4	1206.1	1360.5	1429.0	1315.1	1152.4	1064.1	1045.9	1045.1
47.5°	3766.8	2666.4	1068.2	1187.9	1359.6	1395.1	1261.4	1116.1	1027.8	1022.8	1026.1
50°	3747.9	2503.8	1030.2	1152.4	1339.8	1359.6	1199.5	1083.9	1003.0	1030.2	1050.1
52.5°	3677.7	2293.3	984.8	1103.7	1304.3	1319.2	1168.1	1064.1	984.8	1021.2	1036.9
55°	3659.5	2122.4	927.1	1040.2	1251.5	1247.4	1135.1	1054.2	972.5	958.4	960.9
57.5°	3635.6	1955.7	831.3	926.2	1117.8	1124.4	1103.7	1042.6	940.3	936.1	940.3
60°	3158.4	1499.1	741.3	799.1	918.0	953.5	1068.2	1021.2	888.3	870.9	870.1
62.5°	2063.0	908.1	659.6	696.7	747.9	789.2	974.1	959.3	831.3	820.6	828.0
65°	1109.5	647.2	600.2	622.4	650.5	681.9	807.4	854.4	751.2	713.2	714.1
67.5°	567.1	550.6	555.6	571.3	592.7	608.4	651.3	692.6	640.6	608.4	607.6
70°	485.4	498.6	506.0	515.1	529.2	526.7	530.8	538.2	534.1	518.4	517.6
72.5°	413.6	434.2	435.9	437.5	442.5	430.9	423.5	411.1	411.9	414.4	415.2
75°	314.5	334.3	339.3	336.8	341.8	326.9	317.0	304.6	289.8	287.3	288.9
77.5°	204.7	220.4	227.8	226.2	228.7	217.1	212.2	198.9	181.6	175.0	175.0
80°	123.8	132.9	138.7	140.3	142.8	134.6	126.3	114.7	107.3	99.9	99.9
82.5°	75.1	80.9	85.0	85.0	87.5	78.4	71.8	63.6	60.3	53.7	53.7
85°	38.0	42.1	43.8	42.9	41.3	33.8	31.4	27.2	25.6	22.3	22.3
87.5°	9.1	11.6	11.6	8.3	8.3	4.1	2.5	0.8	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)