

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: P636896

Luminaire Tested: GWS-SA4B-760-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636896
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-760-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14488.4 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

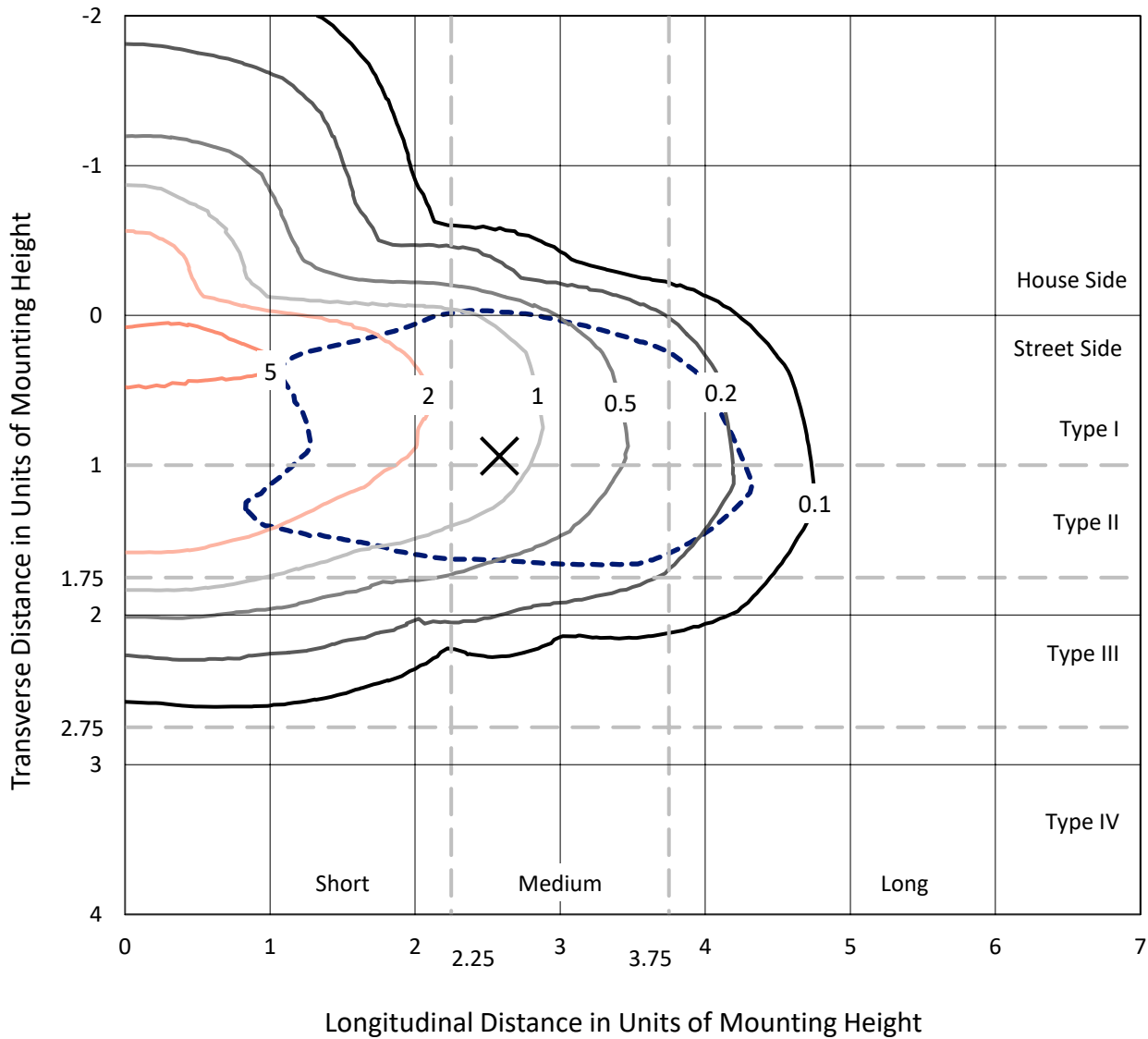
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

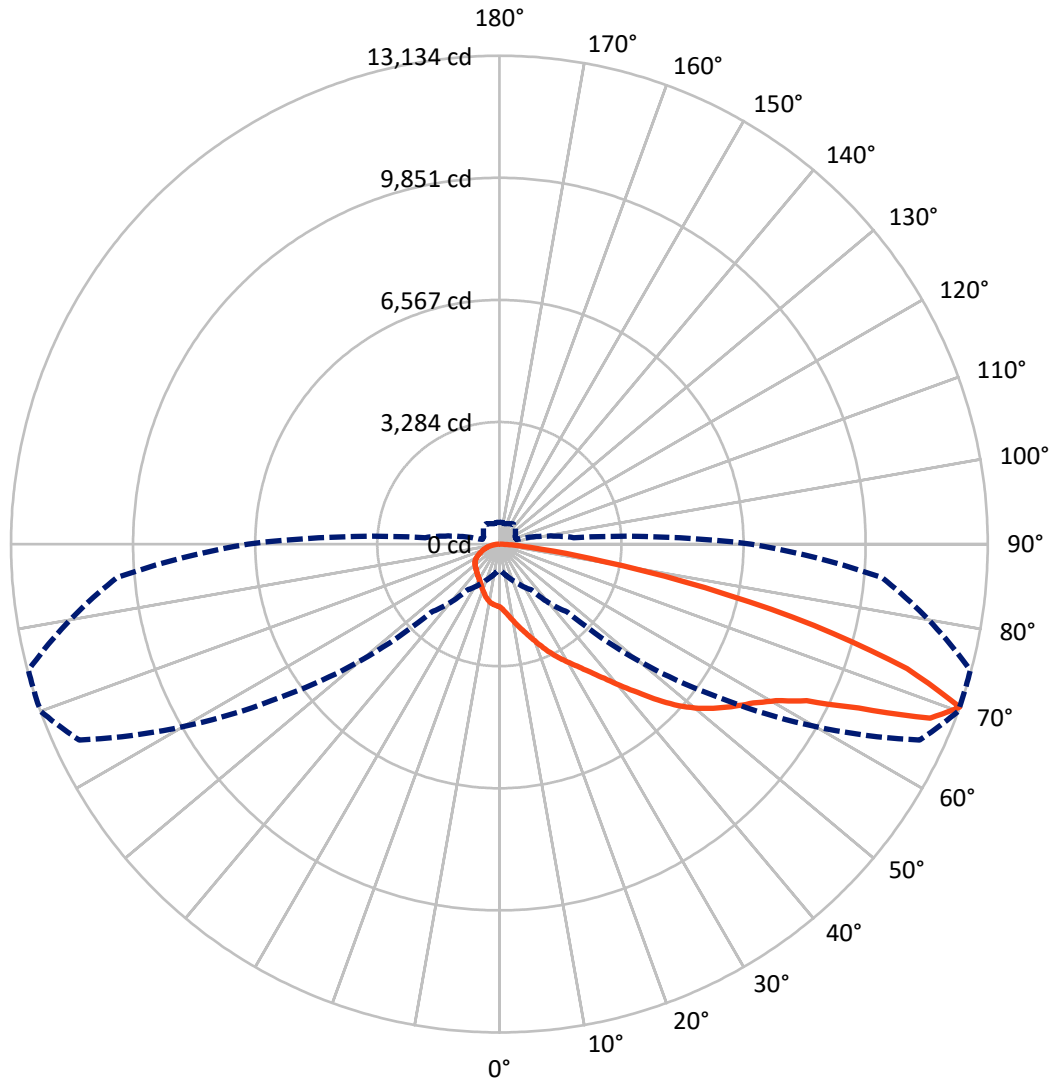
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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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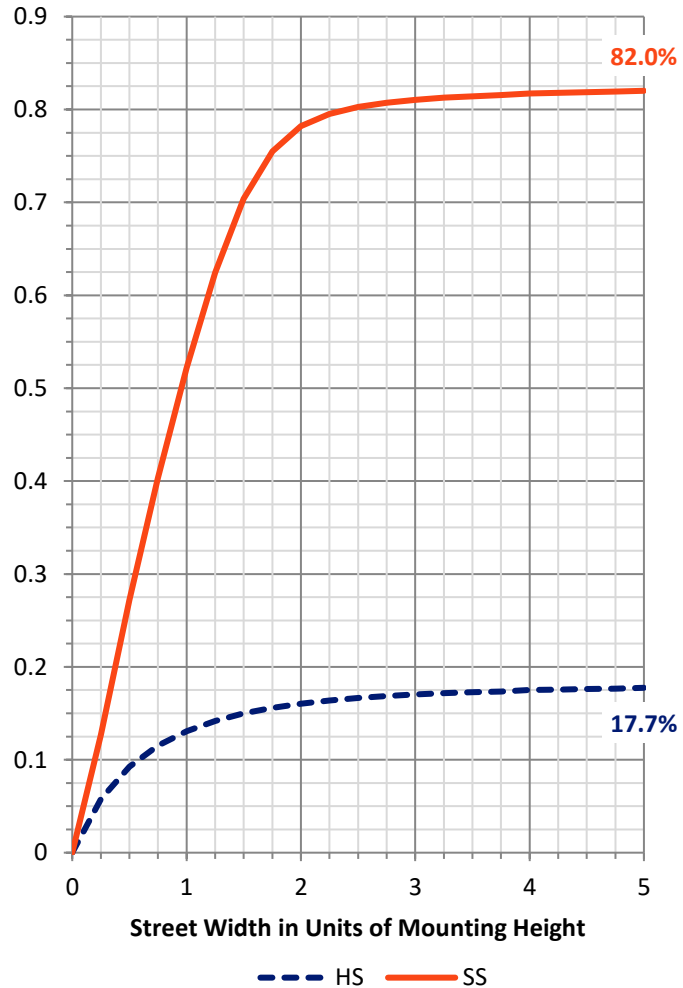
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2596.3	0.0	2596.3
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	11892.1	0.0	11892.1
	% Fixture	82.1	0.0	82.1
Total	Lumens	14488.4	0.0	14488.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	1.2
10°-20°	558.7	3.9
20°-30°	989.7	6.8
30°-40°	1489.5	10.3
40°-50°	2253.4	15.6
50°-60°	3228.1	22.3
60°-70°	3568.3	24.6
70°-80°	2013.7	13.9
80°-90°	215.4	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°	14488.4	100.0
0°-180°	14488.4	100.0

Coefficient of Utilization



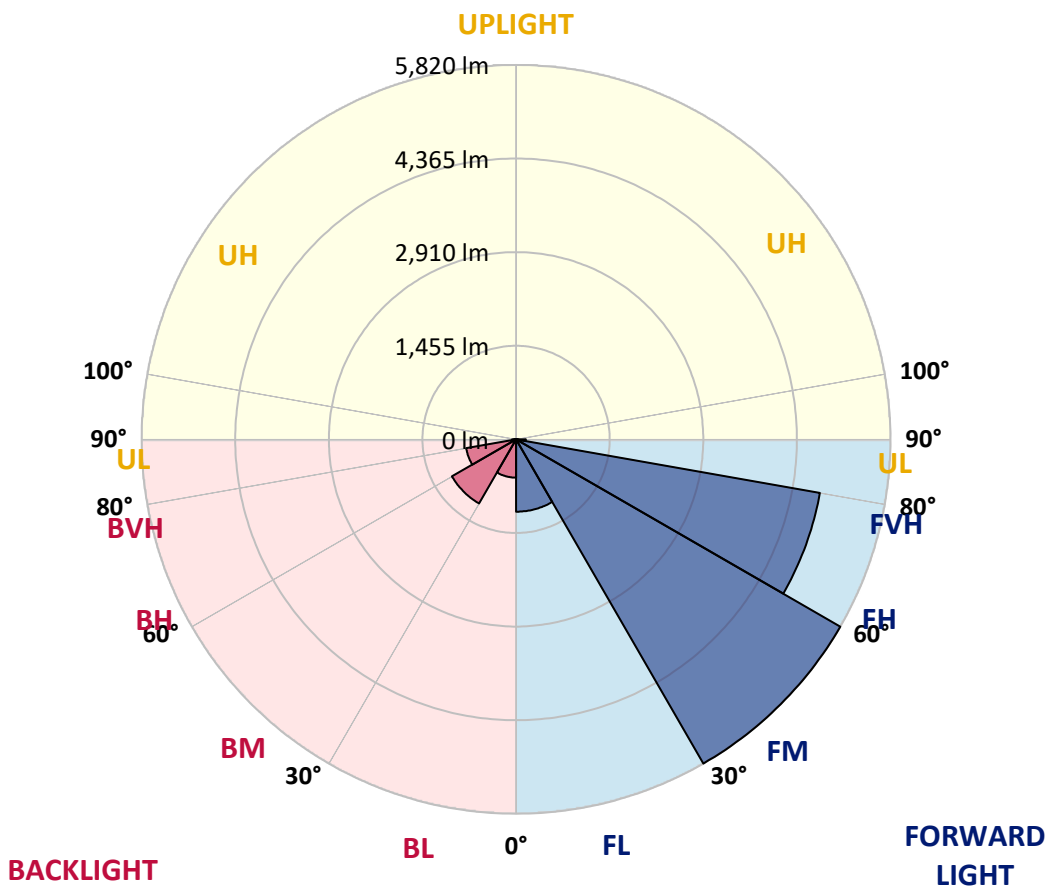
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.7	7.8			
FM (30°-60°)	5820.0	40.2			
FH (60°-80°)	4795.1	33.1			G2/5000
FVH (80°-90°)	152.3	1.1			G2/225
BL (0°-30°)	595.3	4.1	B2/1000		
BM (30°-60°)	1151.0	7.9	B2/2500		
BH (60°-80°)	786.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	63.1	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°	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6
2.5°	1871.8	1868.7	1870.8	1868.7	1857.1	1828.9	1805.8	1776.5	1756.6	1745.1	1717.9
5°	2091.6	2088.5	2081.2	2070.7	2049.8	2011.0	1953.5	1889.6	1850.9	1821.6	1764.0
7.5°	2249.7	2249.7	2248.7	2236.1	2221.5	2180.6	2112.6	2028.8	1972.3	1922.1	1827.8
10°	2330.3	2335.6	2342.9	2360.7	2357.6	2335.6	2271.7	2181.7	2110.5	2051.9	1911.6
12.5°	2374.3	2377.4	2390.0	2426.6	2464.3	2469.6	2431.9	2337.7	2260.2	2181.7	2004.8
15°	2430.8	2431.9	2448.6	2492.6	2548.1	2603.6	2594.1	2499.9	2420.4	2333.5	2108.4
17.5°	2474.8	2482.1	2512.5	2563.8	2632.9	2709.3	2755.4	2696.7	2598.3	2498.9	2221.5
20°	2490.5	2495.7	2535.5	2614.0	2708.3	2816.1	2918.7	2903.0	2803.5	2686.3	2349.2
22.5°	2547.0	2547.0	2576.3	2642.3	2753.3	2910.3	3076.7	3117.6	3029.6	2892.5	2486.3
25°	2671.6	2667.4	2681.0	2708.3	2792.0	2985.7	3232.7	3355.2	3256.8	3102.9	2623.5
27.5°	2842.3	2840.2	2839.1	2843.3	2871.6	3051.6	3364.6	3577.2	3478.7	3305.0	2745.9
30°	3027.5	3021.3	3034.9	3022.3	3016.0	3130.1	3476.7	3776.1	3699.6	3504.9	2847.5
32.5°	3279.8	3268.3	3265.2	3224.4	3199.2	3252.6	3566.7	4002.2	3941.5	3720.6	2961.6
35°	3612.7	3602.3	3548.9	3484.0	3409.7	3434.8	3678.7	4223.1	4227.3	3990.7	3111.3
37.5°	3948.8	3950.9	3909.0	3756.2	3679.7	3665.1	3849.3	4492.1	4582.1	4313.1	3305.0
40°	4228.3	4240.9	4240.9	4079.7	3965.5	3951.9	4089.1	4811.4	4990.4	4708.8	3549.9
42.5°	4440.8	4452.3	4489.0	4372.8	4252.4	4299.5	4380.1	5131.8	5453.1	5197.7	3859.8
45°	4674.3	4683.7	4703.6	4636.6	4566.4	4692.1	4709.9	5514.9	5982.9	5746.3	4219.9
47.5°	4984.1	4975.8	4977.9	4928.7	4874.2	5077.3	5073.1	5837.3	6494.8	6347.2	4610.4
50°	5369.4	5385.1	5370.4	5273.1	5209.2	5394.5	5418.6	6194.3	6944.9	6941.8	5004.0
52.5°	5740.0	5746.3	5823.7	5827.9	5697.1	5658.3	5721.1	6554.5	7324.9	7486.2	5382.0
55°	5758.8	5782.9	6015.3	6182.8	6394.3	6083.4	6026.8	6897.8	7692.4	8019.0	5774.5
57.5°	5357.9	5396.6	5791.3	6152.5	6740.8	6813.0	6550.3	7341.7	8059.8	8543.5	6228.9
60°	4501.5	4582.1	5118.1	5670.9	6584.8	7337.5	7621.2	7944.7	8542.5	9079.5	6780.6
62.5°	2874.7	2906.1	3657.8	4583.2	5882.4	7286.2	8787.4	9007.3	9277.4	9777.8	7630.6
65°	1439.4	1539.9	1980.7	2735.5	4241.9	6420.5	9376.8	10953.4	10622.6	10973.3	9008.3
67.5°	976.7	1009.2	1232.2	1643.6	2487.4	4548.6	9011.5	12592.8	12495.4	12553.0	10477.1
70°	720.2	741.2	917.1	1164.1	1504.4	2582.6	7174.2	12469.3	13134.0	13113.1	10323.2
72.5°	525.5	536.0	668.9	888.8	1114.9	1335.8	4381.1	10073.0	11465.3	12069.4	9028.2
75°	382.1	394.7	464.8	664.8	866.8	833.3	2162.8	7275.7	8743.5	9905.5	7355.3
77.5°	284.7	300.5	332.9	416.7	607.2	596.7	934.9	4724.5	5655.2	6469.7	4468.0
80°	205.2	208.3	227.2	267.0	385.2	349.7	444.9	2463.3	2824.5	3094.5	1751.4
82.5°	124.6	127.7	151.8	164.4	238.7	219.8	231.4	797.7	1143.2	1213.3	654.3
85°	36.6	38.7	69.1	75.4	99.5	94.2	93.2	324.5	387.3	495.2	257.5
87.5°	0.0	0.0	0.0	0.0	1.0	6.3	11.5	57.6	86.9	120.4	62.8
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°	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6
2.5°	1707.4	1683.4	1670.8	1648.8	1633.1	1617.4	1601.7	1587.1	1580.8	1571.4	1573.4
5°	1737.8	1700.1	1662.4	1619.5	1582.9	1552.5	1525.3	1501.2	1490.7	1481.3	1485.5
7.5°	1783.9	1727.3	1655.1	1576.6	1519.0	1477.1	1448.9	1432.1	1426.9	1419.6	1419.6
10°	1842.5	1757.7	1631.0	1519.0	1449.9	1416.4	1403.9	1402.8	1408.0	1409.1	1407.0
12.5°	1907.4	1787.0	1595.4	1451.0	1392.3	1381.9	1391.3	1409.1	1426.9	1436.3	1434.2
15°	1974.4	1805.8	1534.7	1386.1	1350.5	1364.1	1394.4	1430.0	1464.6	1482.4	1481.3
17.5°	2037.2	1810.0	1456.2	1323.2	1313.8	1348.4	1400.7	1456.2	1503.3	1528.4	1529.5
20°	2107.3	1802.7	1375.6	1266.7	1277.2	1333.7	1402.8	1469.8	1525.3	1550.4	1556.7
22.5°	2171.2	1777.6	1297.1	1213.3	1245.8	1315.9	1386.1	1448.9	1498.1	1522.1	1530.5
25°	2228.8	1729.4	1211.2	1168.3	1221.7	1290.8	1344.2	1388.1	1422.7	1437.4	1448.9
27.5°	2260.2	1657.2	1146.3	1132.7	1198.7	1255.2	1284.5	1298.1	1309.6	1305.4	1313.8
30°	2266.5	1567.2	1089.8	1104.4	1164.1	1206.0	1212.3	1198.7	1178.8	1146.3	1153.7
32.5°	2260.2	1463.5	1042.7	1074.1	1125.4	1150.5	1142.1	1106.5	1058.4	1008.1	1011.3
35°	2262.3	1358.8	1003.9	1040.6	1080.4	1094.0	1073.0	1023.8	972.5	926.5	924.4
37.5°	2285.3	1270.9	971.5	1008.1	1036.4	1038.5	1015.5	964.2	938.0	903.4	899.3
40°	2349.2	1206.0	942.2	975.7	993.5	992.4	966.3	929.6	947.4	935.9	932.8
42.5°	2453.9	1166.2	918.1	941.1	953.7	955.8	934.9	911.8	950.6	935.9	930.7
45°	2622.4	1164.1	901.4	906.6	926.5	941.1	926.5	900.3	915.0	843.8	830.2
47.5°	2822.4	1199.7	888.8	876.2	910.8	936.9	913.9	872.0	841.7	776.8	767.4
50°	3063.1	1271.9	877.3	843.8	887.7	921.2	898.2	840.6	794.6	760.0	754.8
52.5°	3348.9	1367.2	862.6	807.1	853.2	912.9	898.2	837.5	776.8	745.4	740.1
55°	3648.3	1477.1	845.9	763.2	814.5	915.0	905.5	815.5	763.2	746.4	742.2
57.5°	4020.0	1609.0	815.5	711.9	779.9	896.1	876.2	802.9	753.7	740.1	735.9
60°	4502.6	1804.8	757.9	659.5	740.1	862.6	850.1	782.0	728.6	717.1	714.0
62.5°	5266.8	2136.7	687.8	609.3	693.0	792.5	811.3	742.2	697.2	696.2	695.1
65°	6512.6	2535.5	605.1	564.3	643.8	734.9	760.0	701.4	664.8	676.3	675.2
67.5°	7385.7	2570.1	537.0	517.2	586.2	672.1	708.7	659.5	619.7	641.7	640.7
70°	6764.9	2004.8	478.4	468.0	524.5	604.0	653.2	607.2	567.4	588.3	584.2
72.5°	5705.4	1536.8	422.9	416.7	461.7	532.9	582.1	554.8	513.0	513.0	503.5
75°	4585.3	1267.8	364.3	361.2	391.5	460.6	516.1	470.0	431.3	429.2	422.9
77.5°	2629.7	831.2	305.7	303.6	313.0	385.2	401.0	391.5	362.2	348.6	344.4
80°	1047.9	432.4	240.8	227.2	236.6	282.7	316.2	300.5	275.3	258.6	249.2
82.5°	406.2	216.7	169.6	148.7	162.3	204.1	229.3	224.0	207.3	169.6	159.1
85°	165.4	105.7	101.5	85.8	94.2	109.9	131.9	114.1	94.2	67.0	63.9
87.5°	44.0	38.7	37.7	23.0	17.8	5.2	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)