

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: P637061

Luminaire Tested: GWS-SA4C-722-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637061
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-SA4C-722-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14186.3 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

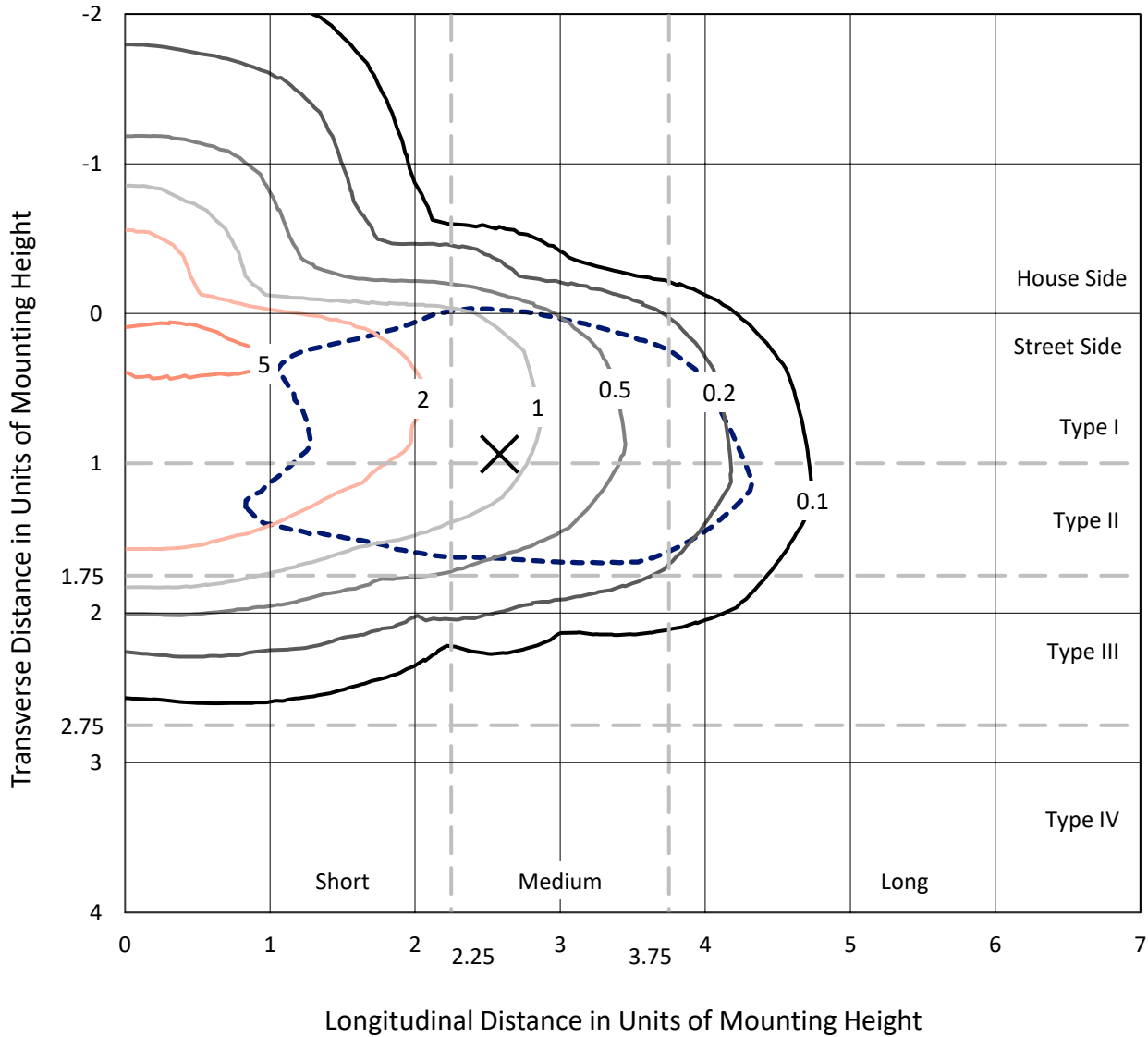
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

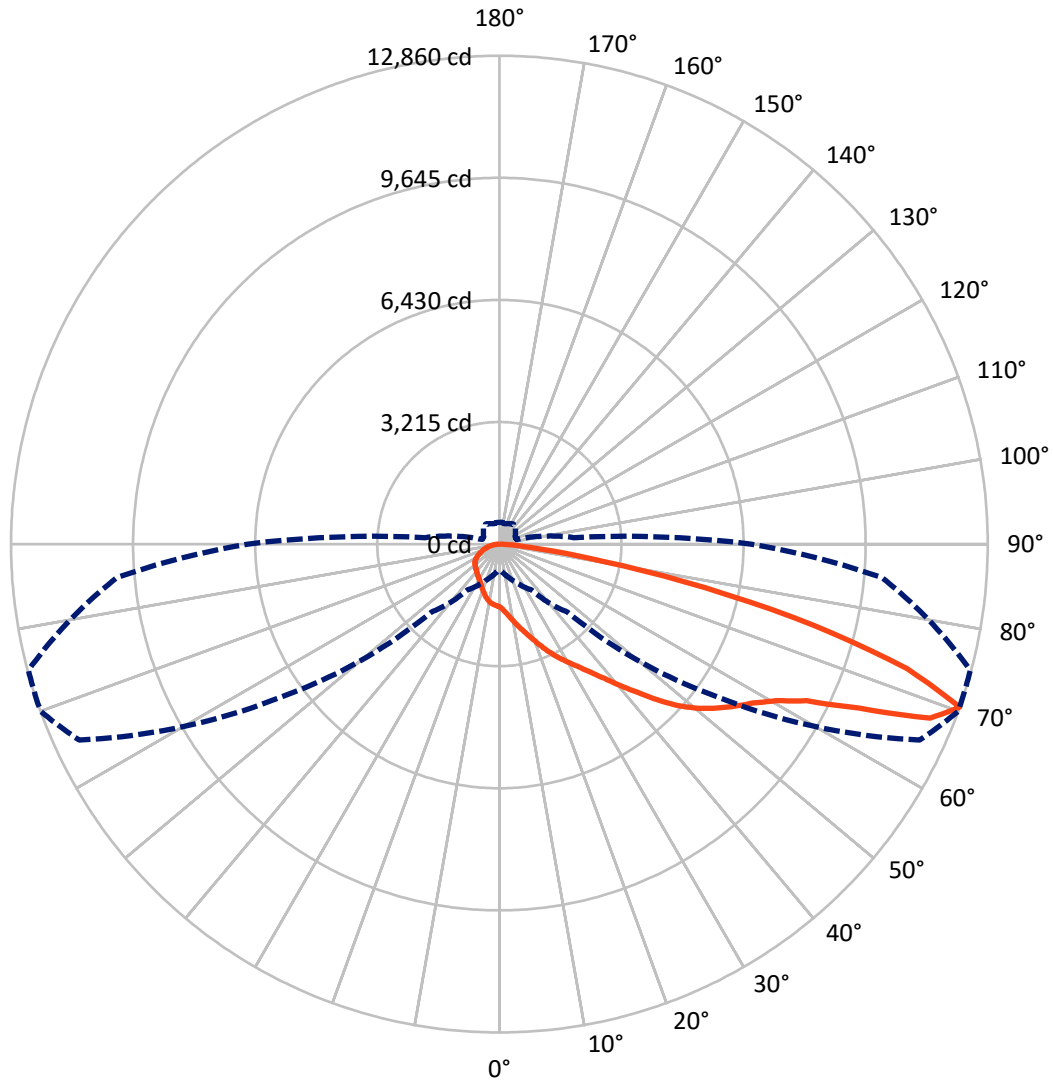
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 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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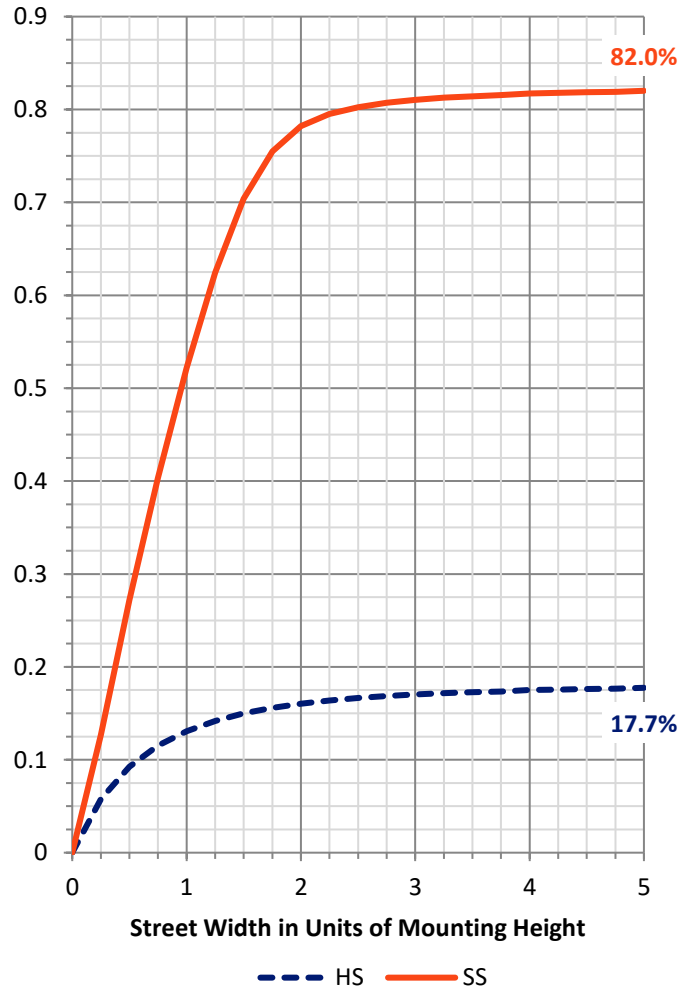
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2542.2	0.0	2542.2
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	11644.1	0.0	11644.1
	% Fixture	82.1	0.0	82.1
Total	Lumens	14186.3	0.0	14186.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	1.2
10°-20°	547.0	3.9
20°-30°	969.0	6.8
30°-40°	1458.4	10.3
40°-50°	2206.4	15.6
50°-60°	3160.8	22.3
60°-70°	3493.9	24.6
70°-80°	1971.7	13.9
80°-90°	210.9	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°	14186.3	100.0
0°-180°	14186.3	100.0

Coefficient of Utilization



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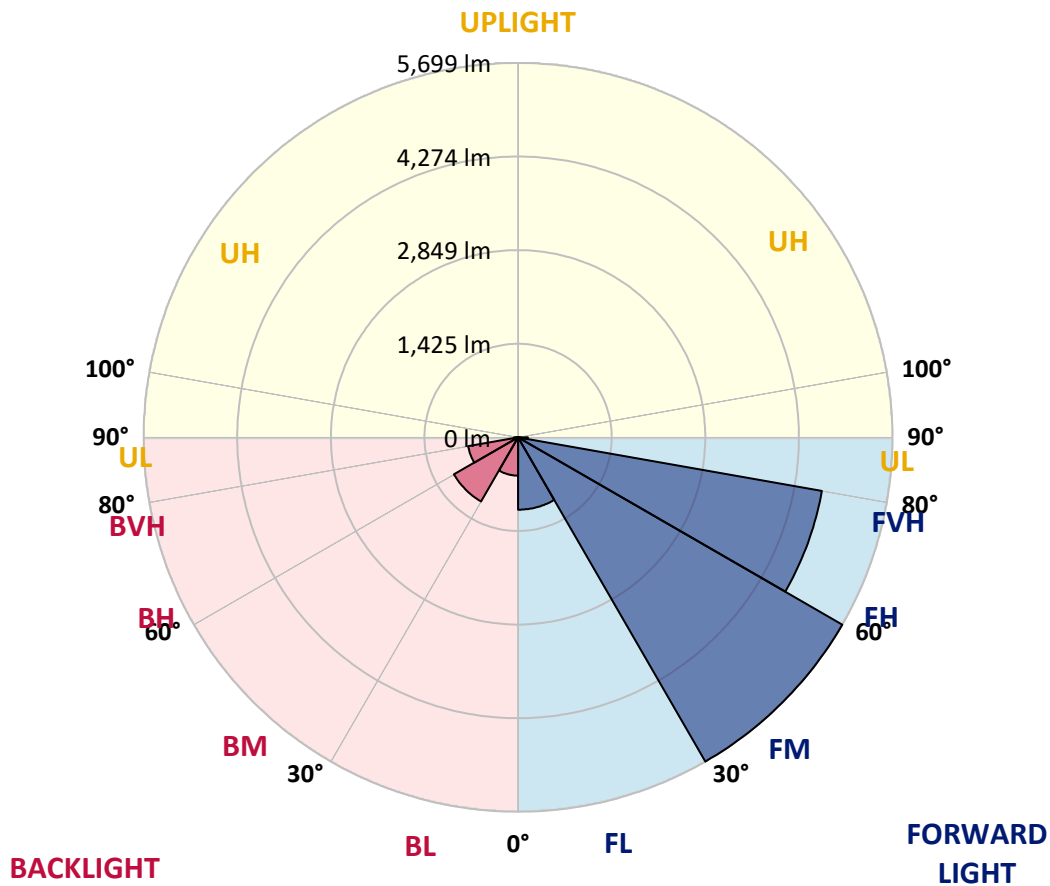
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1101.3	7.8			
FM (30°-60°)	5698.6	40.2			
FH (60°-80°)	4695.1	33.1			G2/5000
FVH (80°-90°)	149.1	1.1			G2/225
BL (0°-30°)	582.9	4.1	B2/1000		
BM (30°-60°)	1127.0	7.9	B2/2500		
BH (60°-80°)	770.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	61.8	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°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1832.8	1829.7	1831.7	1829.7	1818.4	1790.7	1768.2	1739.5	1720.0	1708.7	1682.1
5°	2048.0	2045.0	2037.8	2027.5	2007.0	1969.1	1912.7	1850.2	1812.3	1783.6	1727.2
7.5°	2202.8	2202.8	2201.8	2189.5	2175.1	2135.2	2068.5	1986.5	1931.2	1882.0	1789.7
10°	2281.7	2286.9	2294.0	2311.5	2308.4	2286.9	2224.3	2136.2	2066.5	2009.1	1871.7
12.5°	2324.8	2327.9	2340.2	2376.0	2412.9	2418.1	2381.2	2288.9	2213.1	2136.2	1963.0
15°	2380.1	2381.2	2397.6	2440.6	2495.0	2549.3	2540.1	2447.8	2369.9	2284.8	2064.4
17.5°	2423.2	2430.4	2460.1	2510.3	2578.0	2652.8	2697.9	2640.5	2544.2	2446.8	2175.1
20°	2438.6	2443.7	2482.6	2559.5	2651.8	2757.4	2857.8	2842.4	2745.1	2630.3	2300.2
22.5°	2493.9	2493.9	2522.6	2587.2	2695.9	2849.6	3012.6	3052.6	2966.5	2832.2	2434.5
25°	2615.9	2611.8	2625.1	2651.8	2733.8	2923.4	3165.3	3285.3	3188.9	3038.2	2568.8
27.5°	2783.0	2780.9	2779.9	2784.0	2811.7	2988.0	3294.5	3502.6	3406.2	3236.1	2688.7
30°	2964.4	2958.3	2971.6	2959.3	2953.1	3064.9	3404.2	3697.3	3622.5	3431.8	2788.1
32.5°	3211.5	3200.2	3197.1	3157.1	3132.5	3184.8	3492.3	3918.7	3859.3	3643.0	2899.8
35°	3537.4	3527.2	3474.9	3411.3	3338.6	3363.2	3602.0	4135.0	4139.1	3907.5	3046.4
37.5°	3866.5	3868.5	3827.5	3677.8	3603.0	3588.7	3769.1	4398.5	4486.6	4223.2	3236.1
40°	4140.1	4152.4	4152.4	3994.6	3882.9	3869.5	4003.8	4711.1	4886.4	4610.6	3475.9
42.5°	4348.2	4359.5	4395.4	4281.6	4163.7	4209.8	4288.8	5024.8	5339.4	5089.3	3779.3
45°	4576.8	4586.0	4605.5	4539.9	4471.2	4594.2	4611.7	5399.9	5858.1	5626.5	4131.9
47.5°	4880.2	4872.0	4874.1	4825.9	4772.6	4971.4	4967.3	5715.6	6359.4	6214.8	4514.3
50°	5257.4	5272.8	5258.5	5163.1	5100.6	5282.0	5305.6	6065.2	6800.1	6797.0	4899.7
52.5°	5620.3	5626.5	5702.3	5706.4	5578.3	5540.3	5601.8	6417.8	7172.2	7330.1	5269.7
55°	5638.8	5662.3	5889.9	6053.9	6261.0	5956.5	5901.2	6754.0	7532.0	7851.8	5654.1
57.5°	5246.2	5284.1	5670.5	6024.2	6600.2	6671.0	6413.7	7188.6	7891.8	8365.4	6099.0
60°	4407.7	4486.6	5011.4	5552.6	6447.5	7184.5	7462.3	7779.0	8364.3	8890.2	6639.2
62.5°	2814.8	2845.5	3581.5	4487.6	5759.7	7134.3	8604.2	8819.5	9083.9	9573.9	7471.5
65°	1409.4	1507.8	1939.4	2678.4	4153.5	6286.6	9181.3	10725.0	10401.1	10744.5	8820.5
67.5°	956.4	988.1	1206.5	1609.3	2435.5	4453.8	8823.6	12330.2	12234.9	12291.3	10258.6
70°	705.2	725.7	897.9	1139.8	1473.0	2528.8	7024.6	12209.3	12860.2	12839.7	10107.9
72.5°	514.6	524.8	655.0	870.3	1091.7	1308.0	4289.8	9862.9	11226.3	11817.7	8840.0
75°	374.1	386.4	455.1	650.9	848.7	815.9	2117.7	7124.0	8561.1	9698.9	7201.9
77.5°	278.8	294.2	326.0	408.0	594.5	584.3	915.4	4626.0	5537.3	6334.8	4374.9
80°	200.9	204.0	222.4	261.4	377.2	342.4	435.6	2411.9	2765.6	3030.0	1714.9
82.5°	122.0	125.1	148.6	160.9	233.7	215.3	226.5	781.1	1119.3	1188.0	640.7
85°	35.9	37.9	67.7	73.8	97.4	92.3	91.2	317.8	379.3	484.8	252.2
87.5°	0.0	0.0	0.0	0.0	1.0	6.2	11.3	56.4	85.1	117.9	61.5
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°	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1671.8	1648.3	1636.0	1614.4	1599.1	1583.7	1568.3	1554.0	1547.8	1538.6	1540.6
5°	1701.6	1664.7	1627.8	1585.7	1549.9	1520.1	1493.5	1469.9	1459.7	1450.4	1454.5
7.5°	1746.7	1691.3	1620.6	1543.7	1487.3	1446.3	1418.7	1402.3	1397.1	1390.0	1390.0
10°	1804.1	1721.0	1597.0	1487.3	1419.7	1386.9	1374.6	1373.6	1378.7	1379.7	1377.7
12.5°	1867.6	1749.7	1562.2	1420.7	1363.3	1353.1	1362.3	1379.7	1397.1	1406.4	1404.3
15°	1933.2	1768.2	1502.7	1357.2	1322.3	1335.6	1365.4	1400.2	1434.0	1451.5	1450.4
17.5°	1994.7	1772.3	1425.8	1295.7	1286.4	1320.3	1371.5	1425.8	1472.0	1496.6	1497.6
20°	2063.4	1765.1	1346.9	1240.3	1250.6	1305.9	1373.6	1439.2	1493.5	1518.1	1524.2
22.5°	2125.9	1740.5	1270.0	1188.0	1219.8	1288.5	1357.2	1418.7	1466.8	1490.4	1498.6
25°	2182.3	1693.4	1186.0	1143.9	1196.2	1263.9	1316.2	1359.2	1393.0	1407.4	1418.7
27.5°	2213.1	1622.6	1122.4	1109.1	1173.7	1229.0	1257.7	1271.1	1282.3	1278.2	1286.4
30°	2219.2	1534.5	1067.1	1081.4	1139.8	1180.8	1187.0	1173.7	1154.2	1122.4	1129.6
32.5°	2213.1	1433.0	1020.9	1051.7	1101.9	1126.5	1118.3	1083.5	1036.3	987.1	990.2
35°	2215.1	1330.5	983.0	1018.9	1057.8	1071.2	1050.7	1002.5	952.3	907.2	905.1
37.5°	2237.7	1244.4	951.2	987.1	1014.8	1016.8	994.3	944.1	918.4	884.6	880.5
40°	2300.2	1180.8	922.5	955.3	972.8	971.7	946.1	910.2	927.7	916.4	913.3
42.5°	2402.7	1141.9	899.0	921.5	933.8	935.9	915.4	892.8	930.7	916.4	911.3
45°	2567.7	1139.8	882.6	887.7	907.2	921.5	907.2	881.5	895.9	826.2	812.9
47.5°	2763.5	1174.7	870.3	858.0	891.8	917.4	894.9	853.9	824.1	760.6	751.4
50°	2999.3	1245.4	859.0	826.2	869.2	902.0	879.5	823.1	778.0	744.2	739.1
52.5°	3279.1	1338.7	844.6	790.3	835.4	893.8	879.5	820.0	760.6	729.8	724.7
55°	3572.3	1446.3	828.2	747.3	797.5	895.9	886.7	798.5	747.3	730.9	726.8
57.5°	3936.2	1575.5	798.5	697.0	763.7	877.4	858.0	786.2	738.0	724.7	720.6
60°	4408.7	1767.2	742.1	645.8	724.7	844.6	832.3	765.7	713.4	702.2	699.1
62.5°	5157.0	2092.1	673.5	596.6	678.6	776.0	794.4	726.8	682.7	681.7	680.6
65°	6376.8	2482.6	592.5	552.5	630.4	719.6	744.2	686.8	650.9	662.2	661.2
67.5°	7231.7	2516.5	525.8	506.4	574.0	658.1	694.0	645.8	606.8	628.4	627.3
70°	6623.8	1963.0	468.4	458.2	513.5	591.4	639.6	594.5	555.6	576.1	572.0
72.5°	5586.5	1504.8	414.1	408.0	452.0	521.7	569.9	543.3	502.3	502.3	493.0
75°	4489.7	1241.3	356.7	353.6	383.4	451.0	505.3	460.2	422.3	420.3	414.1
77.5°	2574.9	813.9	299.3	297.3	306.5	377.2	392.6	383.4	354.7	341.3	337.2
80°	1026.1	423.3	235.8	222.4	231.7	276.8	309.6	294.2	269.6	253.2	244.0
82.5°	397.7	212.2	166.1	145.6	158.9	199.9	224.5	219.4	203.0	166.1	155.8
85°	162.0	103.5	99.4	84.1	92.3	107.6	129.2	111.7	92.3	65.6	62.5
87.5°	43.1	37.9	36.9	22.6	17.4	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)