

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: P637278

Luminaire Tested: GWS-SA4C-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11530.5 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

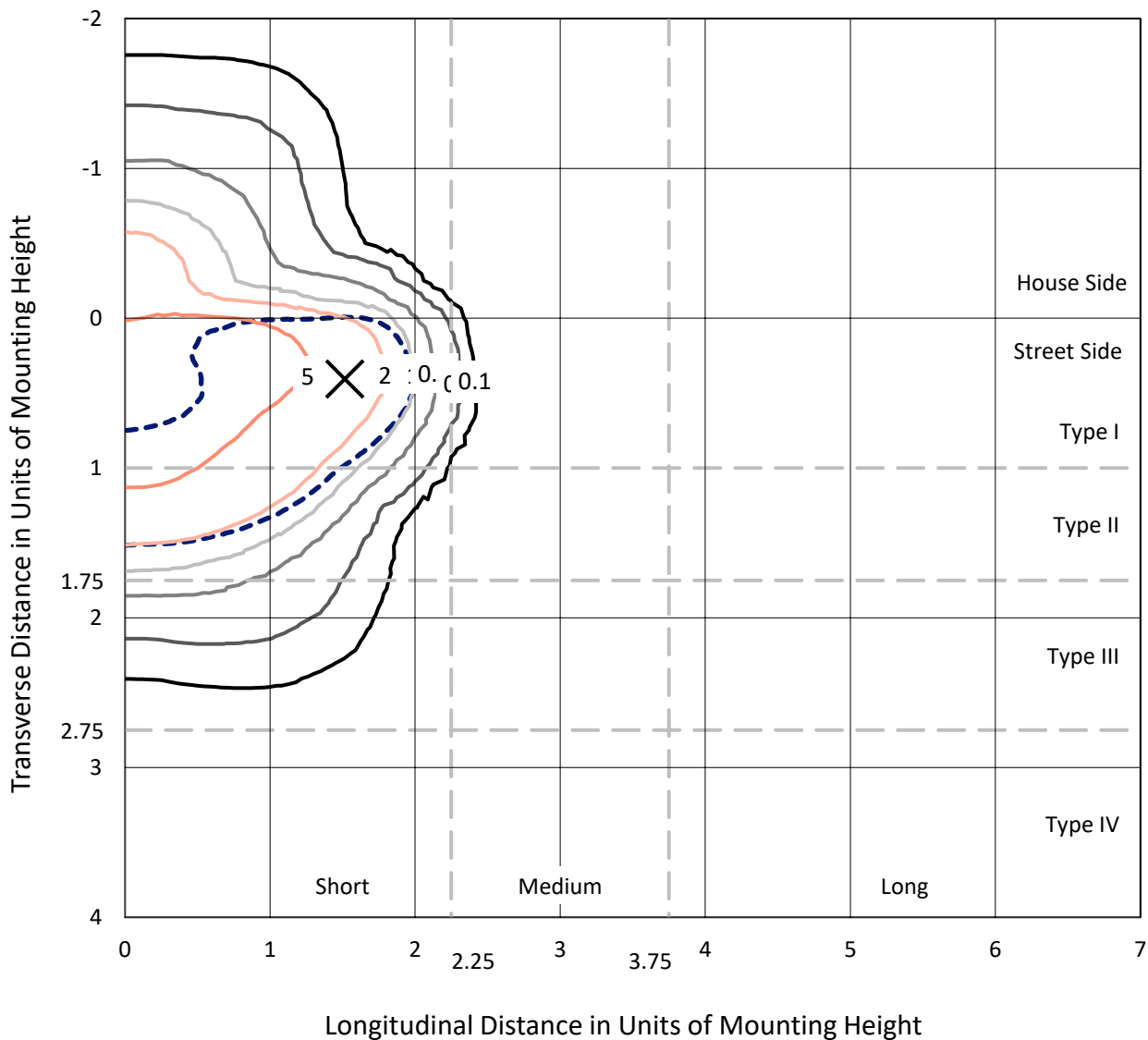
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

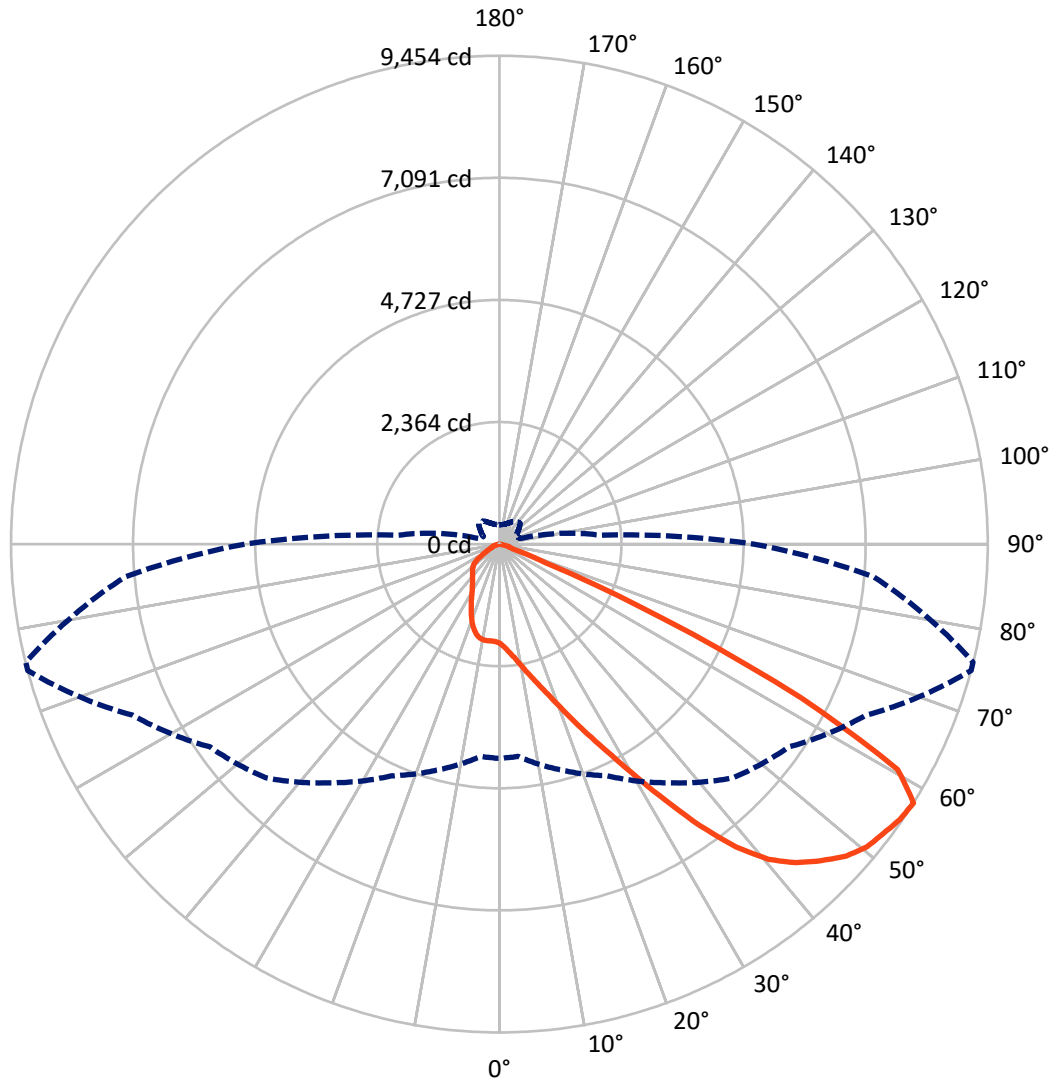
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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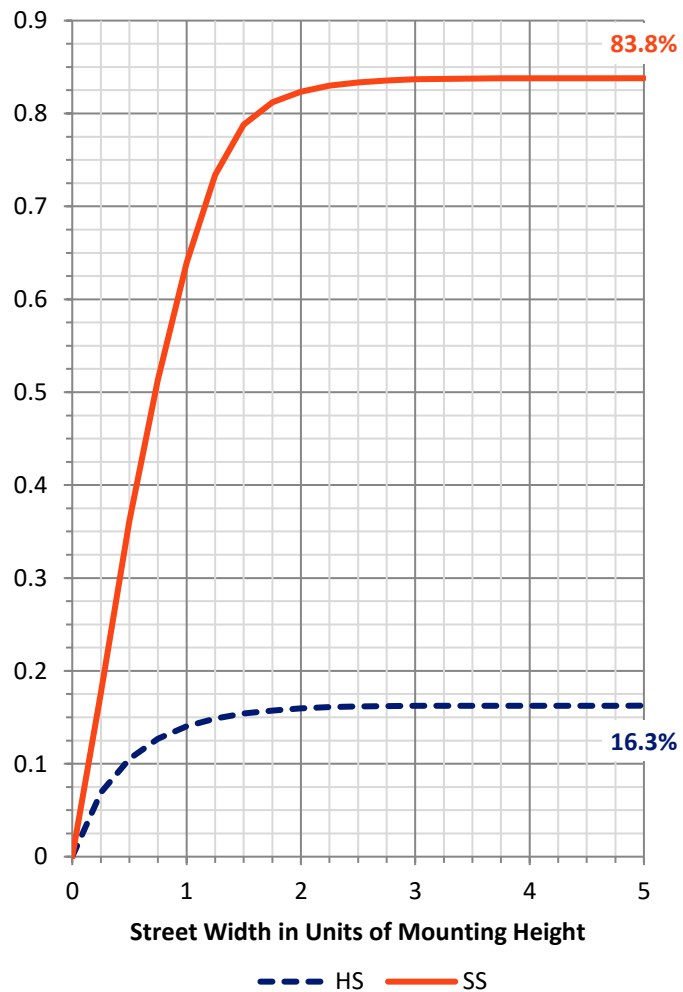
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1883.5	0.0	1883.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	9647.0	0.0	9647.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	11530.5	0.0	11530.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.7	1.7
10°-20°	635.7	5.5
20°-30°	1164.1	10.1
30°-40°	1931.4	16.8
40°-50°	2949.7	25.6
50°-60°	3314.5	28.7
60°-70°	1222.5	10.6
70°-80°	116.9	1.0
80°-90°	0.1	0.0
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°	11530.5	100.0
0°-180°	11530.5	100.0

Coefficient of Utilization



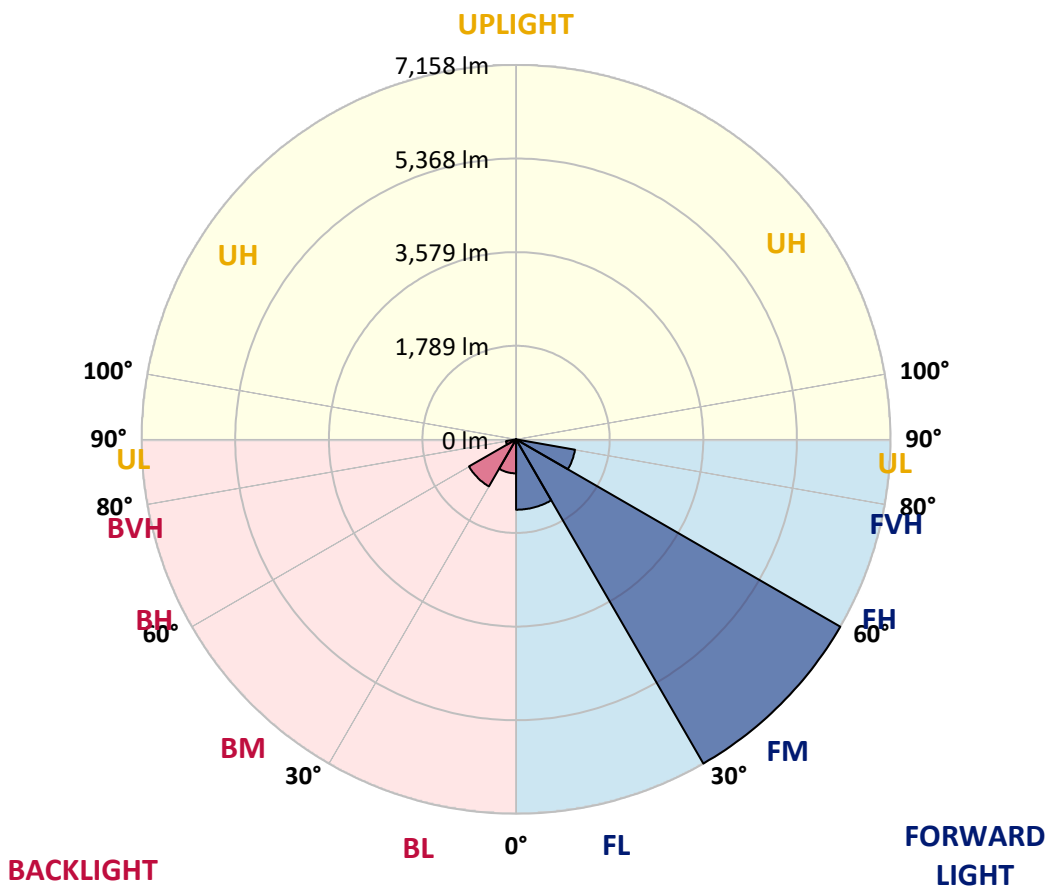
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1345.6	11.7			
FM (30°-60°)	7157.6	62.1			
FH (60°-80°)	1143.8	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	649.9	5.6	B2/1000		
BM (30°-60°)	1037.9	9.0	B2/2500		
BH (60°-80°)	195.6	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1923.1	1923.1	1923.1	1923.1	1923.1	1923.1	1923.1	1923.1	1923.1	1923.1	1923.1
2.5°	2148.6	2170.8	2163.9	2150.0	2141.6	2112.4	2094.3	2041.4	2003.8	1999.7	1964.9
5°	2419.9	2415.7	2410.2	2393.5	2379.6	2333.6	2279.4	2190.3	2111.0	2101.2	2027.5
7.5°	2568.8	2571.6	2574.4	2571.6	2561.8	2527.1	2467.2	2362.9	2241.8	2233.4	2116.6
10°	2630.0	2635.6	2649.5	2676.0	2699.6	2696.8	2662.0	2554.9	2406.0	2392.1	2234.8
12.5°	2659.3	2666.2	2688.5	2738.6	2802.6	2852.7	2858.3	2762.2	2598.0	2575.8	2375.4
15°	2699.6	2706.6	2734.4	2799.8	2893.0	2991.8	3055.9	2994.6	2810.9	2787.3	2529.8
17.5°	2717.7	2727.4	2767.8	2854.1	2975.1	3126.8	3271.5	3266.0	3062.8	3044.7	2709.4
20°	2752.5	2759.5	2795.6	2888.9	3035.0	3253.5	3497.0	3584.6	3370.3	3343.9	2926.4
22.5°	2862.4	2865.2	2881.9	2940.4	3076.7	3345.3	3726.6	3956.2	3733.5	3698.7	3170.0
25°	3041.9	3040.5	3047.5	3057.2	3157.4	3438.5	3947.8	4375.0	4149.6	4112.0	3445.5
27.5°	3270.2	3270.2	3286.8	3259.0	3299.4	3554.0	4166.3	4856.5	4633.9	4581.0	3747.5
30°	3538.7	3537.3	3576.3	3531.8	3544.3	3736.3	4401.5	5381.1	5218.3	5152.9	4095.3
32.5°	3903.3	3895.0	3939.5	3878.3	3836.5	4011.8	4688.1	5929.4	5918.3	5818.1	4532.3
35°	4363.9	4350.0	4363.9	4304.1	4228.9	4397.3	5063.9	6476.3	6694.8	6589.0	5052.7
37.5°	4821.7	4866.3	4881.6	4778.6	4717.4	4885.7	5516.1	6966.1	7436.5	7326.5	5594.0
40°	5361.7	5347.7	5400.6	5285.1	5246.2	5432.6	5958.6	7330.7	8023.7	7919.3	6075.5
42.5°	5759.6	5784.7	5850.1	5786.1	5755.5	5930.8	6330.2	7543.6	8431.4	8328.4	6419.2
45°	6236.9	6255.0	6280.1	6227.2	6195.2	6367.7	6598.7	7636.8	8741.7	8630.4	6650.2
47.5°	6753.2	6767.1	6767.1	6658.6	6555.6	6626.6	6778.3	7689.7	9027.0	8919.9	6821.4
50°	7123.4	7130.3	7191.5	7115.0	6891.0	6781.0	6860.4	7741.2	9216.3	9116.1	6877.1
52.5°	6795.0	6786.6	6988.4	7147.0	7206.9	6988.4	7002.3	7816.4	9308.1	9221.8	6921.6
55°	5722.1	5708.2	5992.0	6377.5	6904.9	7184.6	7173.5	7860.9	9409.7	9356.8	7083.0
57.5°	4148.2	4124.6	4519.8	4948.4	5640.0	6398.4	6843.7	7835.8	9454.2	9450.0	7270.9
60°	2493.7	2474.2	2847.1	3298.0	3832.3	4594.9	5333.8	7019.0	8858.6	8867.0	6782.4
62.5°	1534.9	1553.0	1889.7	2119.3	2318.3	2547.9	2975.1	4721.5	6562.6	6616.8	4766.1
65°	1032.5	1046.4	1358.2	1647.6	1647.6	1347.0	1156.4	2257.1	3501.1	3409.3	2254.3
67.5°	693.0	708.3	954.6	1292.8	1341.5	939.3	469.0	673.5	975.5	946.3	558.0
70°	407.7	424.4	635.9	886.4	976.9	654.0	313.1	285.3	276.9	268.6	217.1
72.5°	182.3	189.3	324.2	450.9	411.9	275.5	221.3	228.2	215.7	211.5	176.7
75°	55.7	58.4	83.5	97.4	98.8	98.8	133.6	179.5	169.8	171.2	136.4
77.5°	13.9	13.9	22.3	20.9	11.1	9.7	25.0	40.4	41.7	37.6	27.8
80°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1923.1	1923.1	1923.1	1923.1	1923.1	1923.1	1923.1	1923.1	1923.1	1923.1	1923.1
2.5°	1949.6	1913.4	1889.7	1856.3	1832.7	1807.6	1785.4	1767.3	1757.5	1754.7	1756.1
5°	1994.1	1937.0	1881.4	1817.4	1772.8	1731.1	1697.7	1671.3	1658.7	1654.6	1654.6
7.5°	2062.3	1983.0	1884.2	1784.0	1708.8	1643.4	1604.5	1575.2	1564.1	1561.3	1553.0
10°	2151.3	2042.8	1880.0	1724.1	1618.4	1550.2	1522.4	1514.0	1518.2	1519.6	1518.2
12.5°	2258.5	2105.4	1853.5	1636.5	1522.4	1480.6	1483.4	1505.7	1530.7	1543.2	1546.0
15°	2372.6	2162.5	1793.7	1532.1	1440.3	1438.9	1479.2	1530.7	1579.4	1600.3	1605.9
17.5°	2500.6	2208.4	1701.9	1420.8	1369.3	1409.6	1482.0	1561.3	1626.7	1661.5	1668.5
20°	2641.2	2246.0	1585.0	1316.4	1306.7	1379.0	1479.2	1576.6	1657.3	1696.3	1703.3
22.5°	2787.3	2272.4	1450.0	1220.4	1249.6	1344.2	1452.8	1547.4	1623.9	1668.5	1674.0
25°	2954.3	2275.2	1312.2	1139.7	1196.7	1296.9	1388.8	1466.7	1530.7	1569.7	1573.8
27.5°	3100.4	2241.8	1189.8	1074.3	1148.0	1238.5	1299.7	1342.8	1387.4	1409.6	1411.0
30°	3268.8	2183.3	1074.3	1021.4	1097.9	1166.1	1196.7	1206.5	1210.7	1214.8	1209.3
32.5°	3469.1	2112.4	988.0	969.9	1040.9	1086.8	1095.2	1075.7	1052.0	1018.6	1010.3
35°	3715.4	2048.4	917.0	919.8	978.3	1006.1	999.1	957.4	911.5	871.1	864.2
37.5°	3982.6	1994.1	862.8	871.1	910.1	929.6	908.7	862.8	841.9	807.1	808.5
40°	4219.2	1949.6	814.1	822.4	840.5	858.6	825.2	794.6	833.5	830.8	833.5
42.5°	4387.6	1912.0	772.3	768.1	780.7	793.2	768.1	752.8	818.2	800.1	809.9
45°	4486.4	1877.2	737.5	712.5	732.0	754.2	737.5	718.0	740.3	656.8	649.9
47.5°	4553.2	1857.7	706.9	658.2	693.0	732.0	697.2	649.9	617.8	545.5	539.9
50°	4560.1	1848.0	670.7	602.5	647.1	688.8	648.5	583.1	537.1	505.1	501.0
52.5°	4596.3	1867.5	620.6	531.6	580.3	647.1	619.2	553.8	491.2	463.4	457.8
55°	4757.7	1949.6	537.1	434.2	505.1	615.1	595.6	494.0	434.2	417.5	413.3
57.5°	4924.7	1966.3	423.0	343.7	439.7	569.1	544.1	455.0	396.6	377.1	372.9
60°	4503.1	1619.8	317.3	283.9	388.2	526.0	503.7	431.4	363.2	339.5	335.4
62.5°	2958.4	875.3	251.9	240.7	327.0	445.3	459.2	389.6	324.2	299.2	297.8
65°	1363.7	406.3	193.4	190.6	256.0	354.8	395.2	340.9	274.1	251.9	251.9
67.5°	371.5	201.8	151.7	140.5	173.9	238.0	288.1	254.7	194.8	168.4	167.0
70°	185.1	162.8	136.4	121.1	125.2	147.5	169.8	141.9	98.8	80.7	79.3
72.5°	151.7	133.6	115.5	103.0	94.6	90.5	87.7	71.0	45.9	34.8	33.4
75°	112.7	96.0	82.1	66.8	57.1	52.9	47.3	34.8	19.5	11.1	9.7
77.5°	25.0	23.7	22.3	16.7	15.3	12.5	9.7	7.0	2.8	0.0	0.0
80°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)