

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: P643192

Luminaire Tested: GWS-SA6E-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33714.2 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

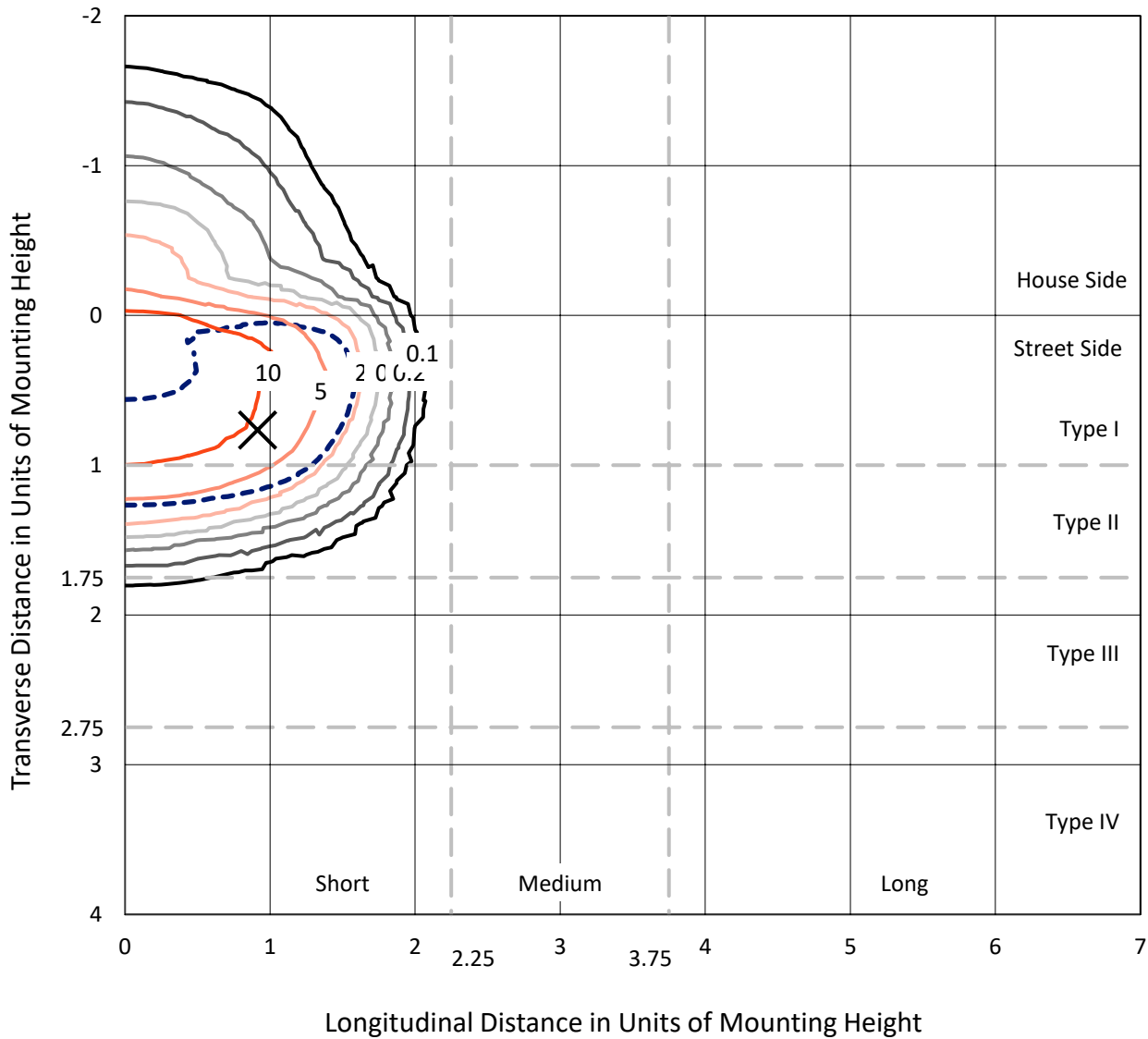
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

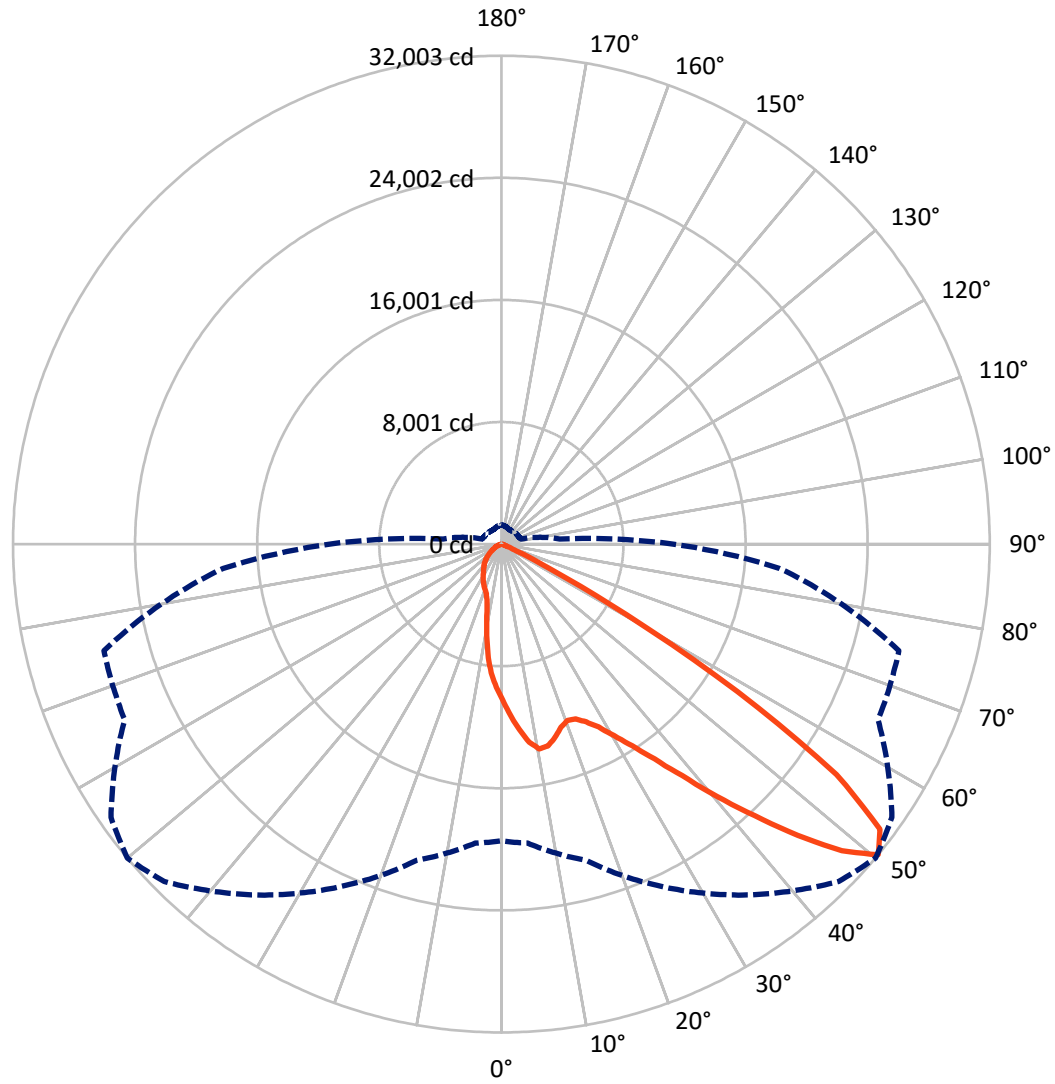
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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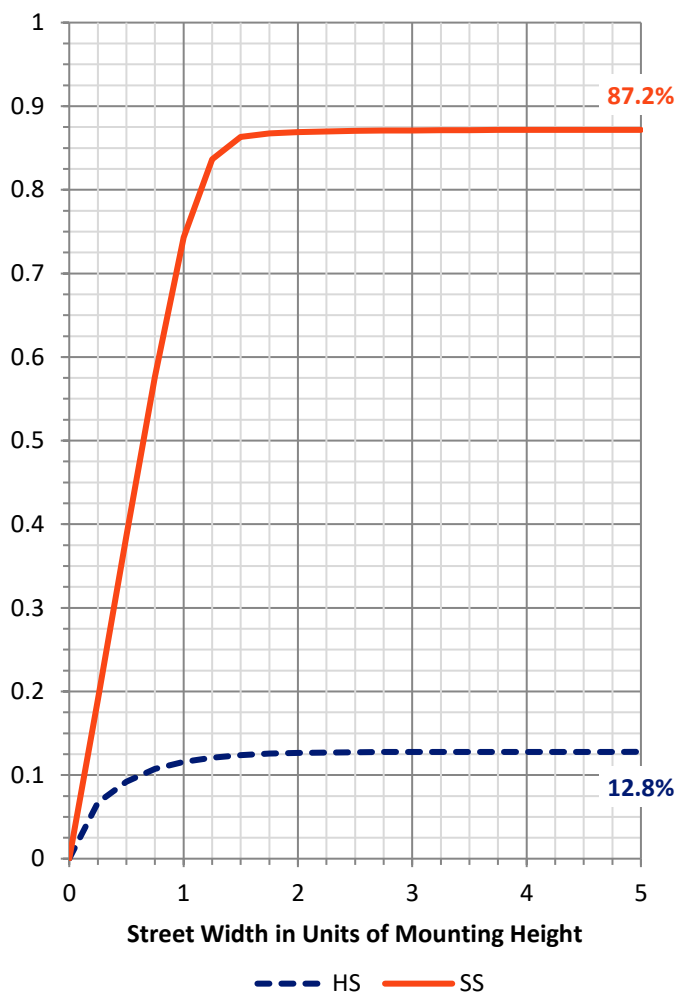
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4331.7	0.0	4331.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	29382.4	0.0	29382.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	33714.2	0.0	33714.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	947.5	2.8
10°-20°	2444.6	7.3
20°-30°	4034.5	12.0
30°-40°	6657.9	19.7
40°-50°	10534.3	31.2
50°-60°	7975.7	23.7
60°-70°	998.2	3.0
70°-80°	112.9	0.3
80°-90°	8.6	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°	33714.2	100.0
0°-180°	33714.2	100.0

Coefficient of Utilization



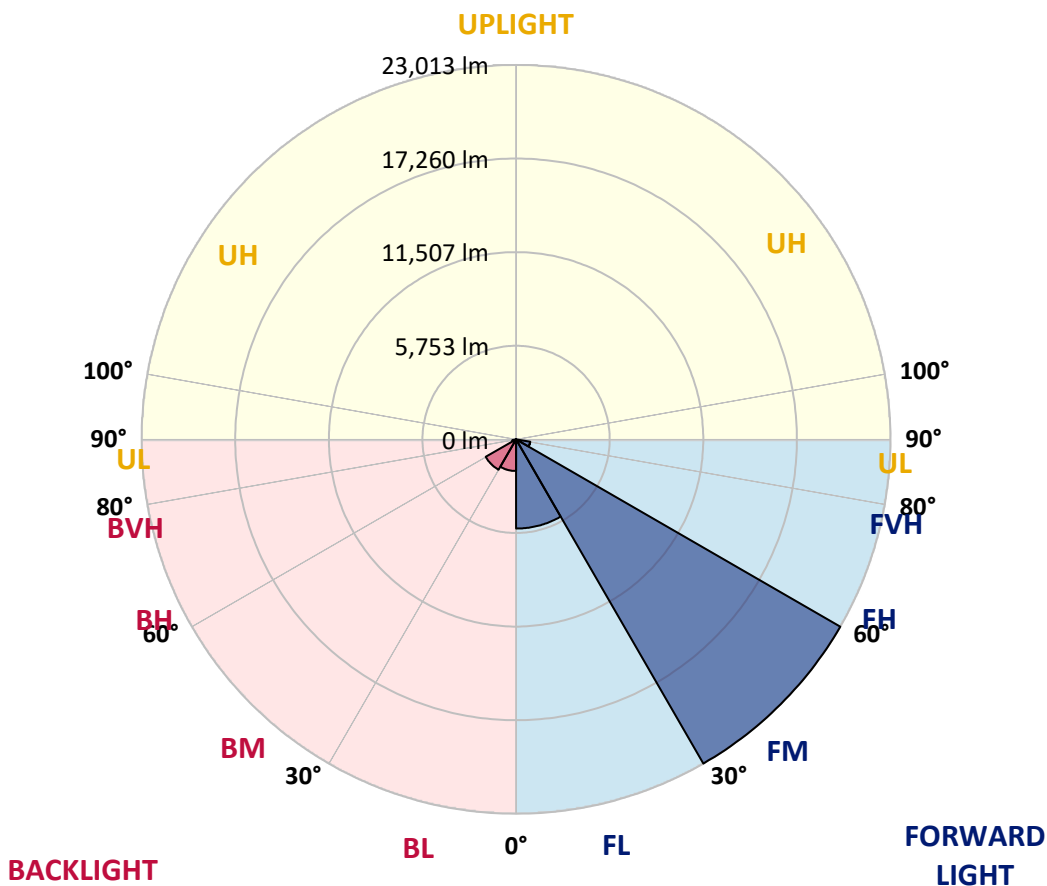
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5482.4	16.3			
FM (30°-60°)	23013.5	68.3			
FH (60°-80°)	882.5	2.6			G1/1800
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	1944.3	5.8	B3/2500		
BM (30°-60°)	2154.3	6.4	B2/2500		
BH (60°-80°)	228.6	0.7	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	10214.1	10214.1	10214.1	10214.1	10214.1	10214.1	10214.1	10214.1	10214.1	10214.1	10214.1
2.5°	11638.8	11731.9	11706.2	11584.3	11452.7	11359.7	11215.3	11170.3	10843.0	10615.2	10374.5
5°	13044.3	13073.2	13041.1	12893.5	12662.5	12441.1	12203.6	12065.6	11516.9	11022.7	10518.9
7.5°	13381.3	13346.0	13407.0	13480.8	13448.7	13352.4	13102.1	12951.3	12296.7	11491.2	10727.5
10°	12328.8	12248.5	12476.4	12858.2	13259.3	13711.8	13647.6	13660.5	13057.2	12081.7	11000.3
12.5°	10932.9	10900.8	11070.8	11513.7	12299.9	13326.7	13573.8	13987.8	13753.5	12720.2	11311.5
15°	10320.0	10336.0	10438.7	10717.9	11282.6	12559.8	13153.5	13901.1	14376.1	13339.6	11654.9
17.5°	10413.0	10470.8	10467.6	10560.6	10904.0	11927.6	12620.8	13628.4	14857.4	14052.0	12049.6
20°	11045.2	11102.9	11016.3	10945.7	11061.2	11767.2	12341.6	13352.4	15181.5	14770.8	12466.7
22.5°	11991.8	12059.2	11853.8	11651.7	11577.9	12030.3	12447.5	13240.1	15428.6	15428.6	12839.0
25°	13137.4	13230.5	12912.8	12553.4	12348.0	12585.5	12899.9	13493.6	15682.1	16019.0	13092.5
27.5°	14417.8	14421.0	14148.2	13743.9	13358.8	13387.7	13577.0	14064.8	15961.3	16654.4	13291.4
30°	15858.6	15868.2	15505.6	15021.1	14536.5	14404.9	14565.4	14934.4	16542.1	17453.4	13567.4
32.5°	17719.8	17764.7	17244.9	16532.5	15903.5	15656.4	15749.5	16137.8	17466.3	18454.6	13981.4
35°	20235.6	20283.7	19516.8	18576.6	17575.4	17203.1	17296.2	17687.7	18804.4	19876.2	14642.4
37.5°	22719.3	22783.5	22006.9	21130.9	19757.5	19141.3	19237.6	19609.8	20813.2	21840.1	15701.4
40°	24436.1	24522.7	24282.1	23691.6	22417.7	21609.0	21724.5	21859.3	23024.2	24189.0	17074.8
42.5°	25341.0	25463.0	25565.6	25867.3	25196.6	24519.5	24323.8	24333.4	25273.6	26582.9	18502.8
45°	25395.6	25514.3	26040.6	27205.4	27715.6	27574.4	27218.2	26977.6	26990.4	28177.7	19394.8
47.5°	23630.6	23852.1	24837.2	27118.8	29037.7	30209.0	30029.3	29458.1	27712.4	28283.6	19298.6
50°	19449.4	19667.6	21458.2	24740.9	28075.0	31261.5	32002.8	31235.8	27240.7	26964.7	18307.0
52.5°	14125.8	14148.2	15309.9	19144.5	24173.0	29320.1	31065.8	30992.0	26521.9	25366.7	16952.8
55°	6709.9	6629.7	7935.7	10804.5	16718.6	23714.1	26656.7	27491.0	25501.5	24211.5	15903.5
57.5°	1954.2	1992.8	2573.6	4216.5	8362.5	15155.8	18255.7	19808.8	20931.9	19905.1	12335.2
60°	876.0	879.3	978.7	1283.6	2785.4	7050.0	9437.5	11359.7	12514.9	11597.1	6119.5
62.5°	635.4	638.6	677.1	725.2	946.6	2387.5	3539.5	4717.1	4803.8	3144.8	1549.9
65°	529.5	529.5	535.9	535.9	568.0	853.6	1075.0	1386.3	1168.1	866.4	606.5
67.5°	426.8	430.0	436.4	436.4	426.8	426.8	462.1	507.0	542.3	670.7	558.4
70°	333.7	330.5	330.5	333.7	324.1	276.0	298.4	340.1	372.2	523.1	484.6
72.5°	259.9	263.1	259.9	247.1	224.6	163.7	176.5	221.4	237.5	327.3	327.3
75°	195.7	199.0	186.1	141.2	93.1	51.3	67.4	109.1	138.0	160.4	118.7
77.5°	25.7	25.7	19.3	19.3	16.0	19.3	19.3	25.7	38.5	38.5	28.9
80°	3.2	3.2	3.2	6.4	9.6	12.8	12.8	12.8	12.8	16.0	16.0
82.5°	3.2	3.2	3.2	3.2	9.6	9.6	12.8	12.8	12.8	12.8	12.8
85°	0.0	0.0	0.0	3.2	6.4	9.6	9.6	12.8	12.8	12.8	12.8
87.5°	0.0	0.0	0.0	3.2	6.4	9.6	9.6	9.6	12.8	12.8	12.8
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°	10214.1	10214.1	10214.1	10214.1	10214.1	10214.1	10214.1	10214.1	10214.1	10214.1	10214.1
2.5°	10230.1	10044.0	9819.4	9665.3	9447.1	9302.7	9097.4	8959.4	8840.6	8747.6	8798.9
5°	10233.3	9938.1	9479.2	9087.7	8660.9	8269.4	7849.1	7518.6	7220.1	7085.3	7159.1
7.5°	10297.5	9873.9	9171.2	8474.8	7656.5	6847.9	6090.6	5474.5	5169.6	5025.2	5070.1
10°	10422.6	9845.0	8827.8	7672.6	6344.1	5240.2	4505.4	4088.2	3918.1	3828.3	3844.3
12.5°	10538.2	9825.8	8381.8	6616.8	5005.9	4065.7	3683.9	3626.1	3661.4	3664.6	3661.4
15°	10695.4	9790.5	7829.8	5532.2	4004.8	3513.8	3523.4	3606.9	3690.3	3716.0	3709.5
17.5°	10862.3	9735.9	7117.4	4492.5	3398.3	3353.3	3465.7	3578.0	3661.4	3674.2	3677.4
20°	11035.6	9623.6	6305.6	3667.8	3115.9	3231.4	3356.6	3440.0	3501.0	3520.2	3526.6
22.5°	11115.8	9386.2	5368.6	3077.4	2926.6	3080.6	3173.6	3282.7	3302.0	3231.4	3244.2
25°	11074.1	8985.0	4454.0	2679.5	2737.2	2891.3	3029.2	2974.7	2894.5	2843.1	2859.2
27.5°	10942.5	8452.4	3558.7	2387.5	2535.1	2730.8	2746.9	2685.9	2673.0	2631.3	2644.2
30°	10801.3	7839.4	2862.4	2153.2	2329.7	2535.1	2486.9	2509.4	2512.6	2464.5	2480.5
32.5°	10714.7	7197.7	2278.3	1996.0	2198.1	2236.6	2332.9	2377.8	2381.0	2268.7	2288.0
35°	10743.5	6565.5	1928.6	1867.6	2076.2	2066.6	2201.3	2227.0	2040.9	1886.9	1902.9
37.5°	10977.8	5981.5	1729.6	1768.1	1864.4	1938.2	2040.9	1870.8	1829.1	1758.5	1768.1
40°	11414.2	5484.1	1610.9	1707.2	1720.0	1838.7	1681.5	1703.9	1707.2	1662.2	1671.9
42.5°	11924.4	5070.1	1540.3	1671.9	1639.8	1659.0	1501.8	1546.7	1594.8	1575.6	1578.8
45°	12181.1	4665.8	1479.3	1549.9	1559.5	1376.6	1341.3	1389.5	1450.4	1460.1	1463.3
47.5°	11953.3	4280.7	1415.1	1373.4	1437.6	1254.7	1213.0	1229.0	1299.6	1338.1	1344.5
50°	11257.0	3837.9	1318.9	1216.2	1180.9	1126.3	1087.8	1091.0	1171.3	1238.7	1251.5
52.5°	10278.2	3375.8	1161.6	1030.1	949.8	991.6	1001.2	981.9	1055.7	1123.1	1136.0
55°	9328.4	2798.2	921.0	837.5	763.7	853.6	879.3	853.6	876.0	921.0	924.2
57.5°	6568.7	1582.0	706.0	693.1	632.2	731.6	773.4	734.8	696.3	725.2	731.6
60°	3045.3	827.9	542.3	542.3	526.3	629.0	699.5	645.0	571.2	584.0	593.7
62.5°	953.1	523.1	397.9	375.4	430.0	535.9	593.7	539.1	452.5	452.5	465.3
65°	539.1	449.3	314.5	288.8	349.8	430.0	465.3	407.5	330.5	324.1	324.1
67.5°	500.6	426.8	279.2	234.3	247.1	276.0	288.8	250.3	227.8	224.6	227.8
70°	414.0	356.2	224.6	160.4	150.8	147.6	154.0	144.4	138.0	141.2	150.8
72.5°	256.7	215.0	141.2	96.3	83.4	80.2	80.2	80.2	77.0	77.0	77.0
75°	93.1	80.2	64.2	48.1	41.7	38.5	38.5	41.7	38.5	35.3	32.1
77.5°	28.9	25.7	25.7	25.7	22.5	19.3	16.0	16.0	12.8	9.6	9.6
80°	16.0	16.0	16.0	16.0	12.8	12.8	9.6	6.4	3.2	3.2	0.0
82.5°	16.0	16.0	16.0	12.8	12.8	12.8	9.6	6.4	3.2	0.0	0.0
85°	12.8	12.8	12.8	12.8	12.8	12.8	9.6	6.4	3.2	0.0	0.0
87.5°	12.8	12.8	12.8	12.8	12.8	12.8	9.6	6.4	3.2	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)