

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: P640772

Luminaire Tested: GWS-SA5E-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640772
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-SA5E-750-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28921.4 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

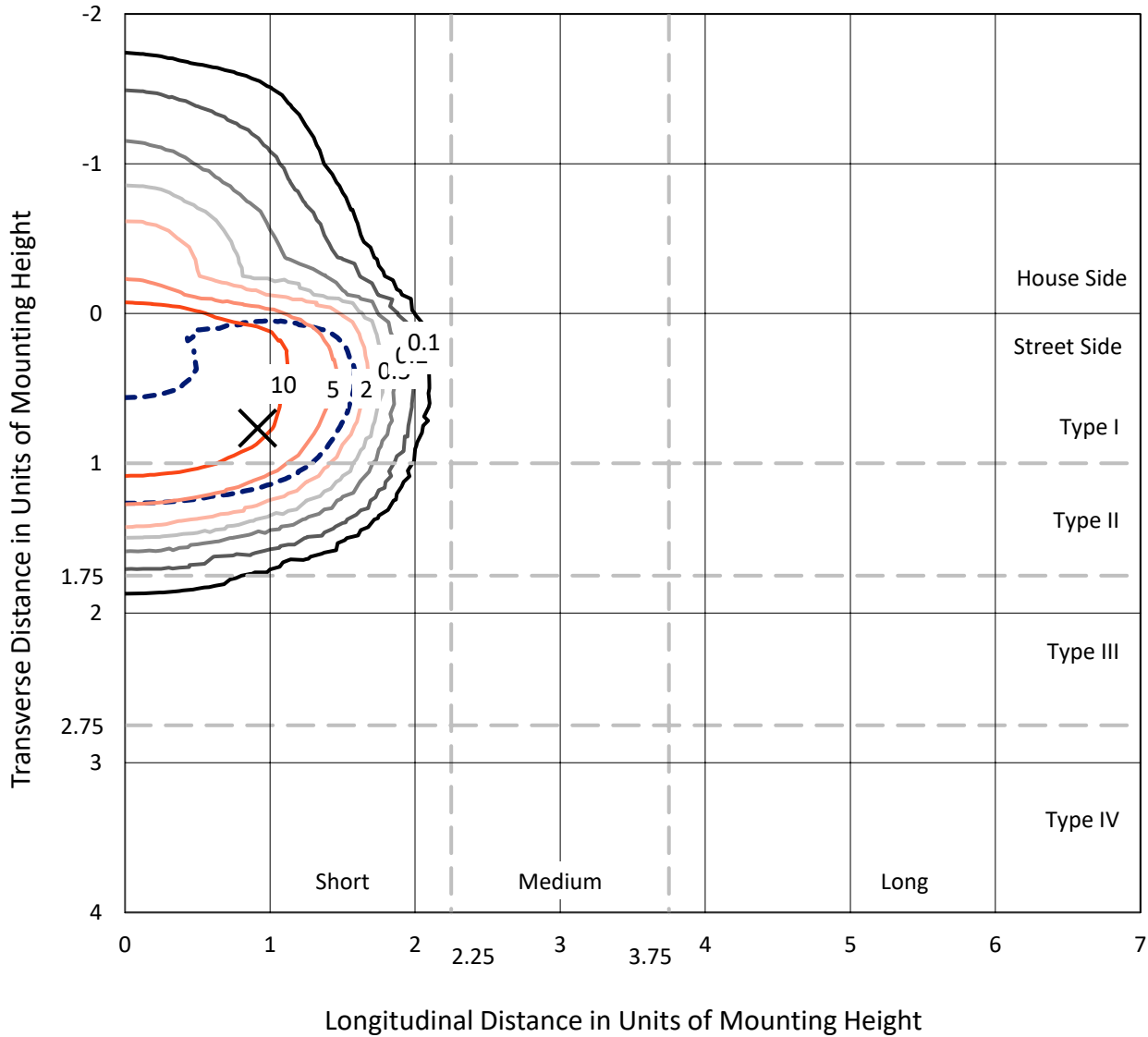
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

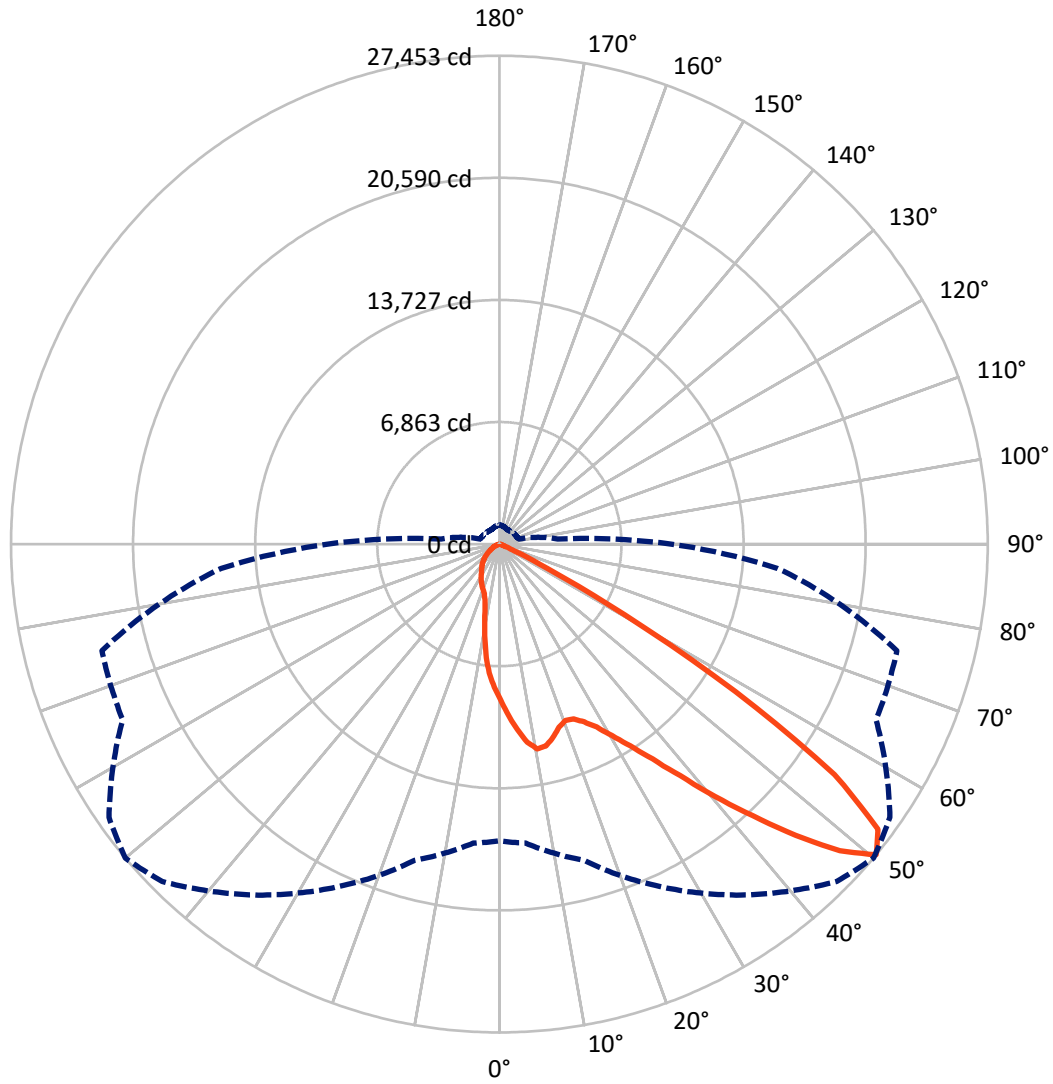
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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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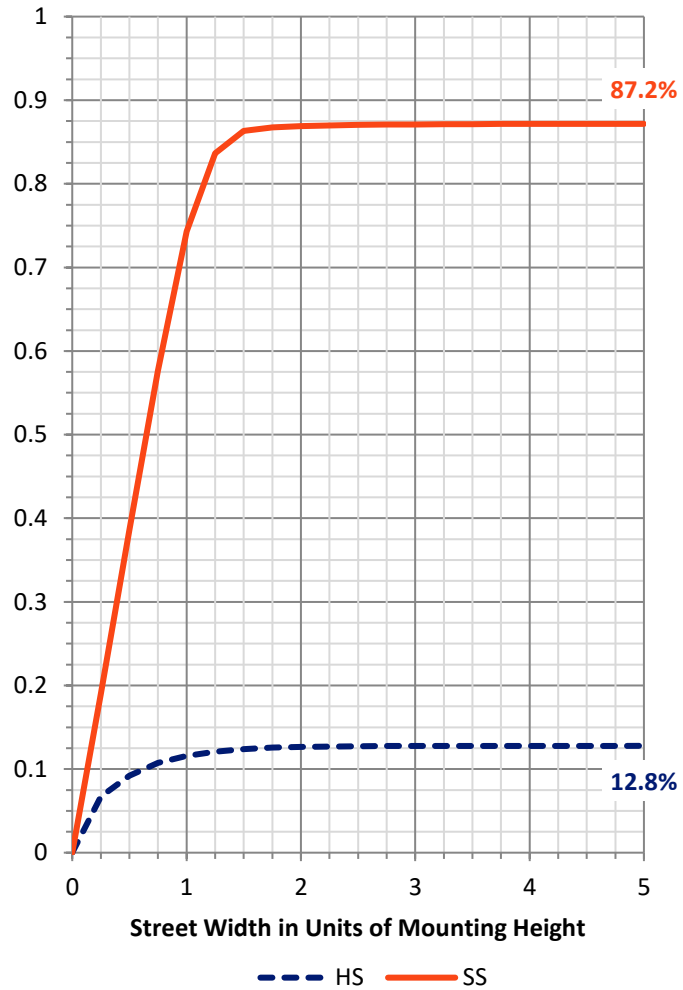
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3716.0	0.0	3716.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	25205.5	0.0	25205.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	28921.4	0.0	28921.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.8	2.8
10°-20°	2097.1	7.3
20°-30°	3461.0	12.0
30°-40°	5711.4	19.7
40°-50°	9036.7	31.2
50°-60°	6841.8	23.7
60°-70°	856.3	3.0
70°-80°	96.9	0.3
80°-90°	7.4	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°	28921.4	100.0
0°-180°	28921.4	100.0

Coefficient of Utilization



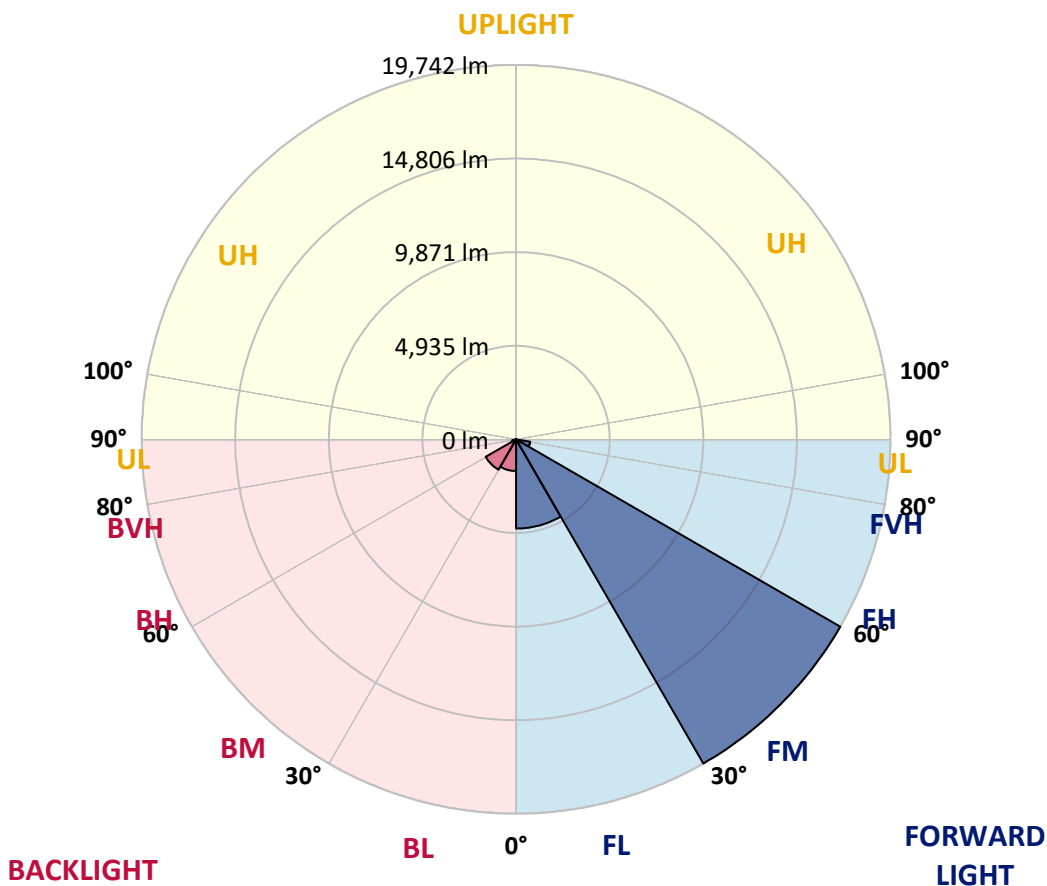
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4703.0	16.3			
FM (30°-60°)	19741.9	68.3			
FH (60°-80°)	757.1	2.6			G1/1800
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	1667.9	5.8	B3/2500		
BM (30°-60°)	1848.0	6.4	B2/2500		
BH (60°-80°)	196.1	0.7	B1/500		G1/500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	8762.0	8762.0	8762.0	8762.0	8762.0	8762.0	8762.0	8762.0	8762.0	8762.0	8762.0
2.5°	9984.3	10064.1	10042.1	9937.5	9824.6	9744.8	9620.9	9582.4	9301.6	9106.1	8899.7
5°	11190.0	11214.7	11187.2	11060.6	10862.4	10672.4	10468.7	10350.4	9879.7	9455.7	9023.5
7.5°	11479.0	11448.7	11501.0	11564.3	11536.8	11454.2	11239.5	11110.1	10548.6	9857.6	9202.5
10°	10576.1	10507.3	10702.7	11030.3	11374.4	11762.5	11707.5	11718.5	11201.0	10364.1	9436.5
12.5°	9378.7	9351.1	9497.0	9876.9	10551.3	11432.2	11644.2	11999.3	11798.3	10911.9	9703.5
15°	8852.9	8866.6	8954.7	9194.2	9678.7	10774.3	11283.6	11925.0	12332.4	11443.2	9998.0
17.5°	8932.7	8982.3	8979.5	9059.3	9353.9	10232.0	10826.6	11691.0	12745.3	12054.3	10336.6
20°	9475.0	9524.5	9450.2	9389.7	9488.8	10094.4	10587.1	11454.2	13023.3	12671.0	10694.5
22.5°	10287.1	10344.9	10168.7	9995.3	9932.0	10320.1	10678.0	11357.9	13235.3	13235.3	11013.8
25°	11269.8	11349.6	11077.1	10768.8	10592.6	10796.3	11066.1	11575.4	13452.7	13741.8	11231.3
27.5°	12368.1	12370.9	12136.9	11790.1	11459.7	11484.5	11646.9	12065.3	13692.2	14286.8	11401.9
30°	13604.1	13612.4	13301.3	12885.7	12470.0	12357.1	12494.8	12811.3	14190.5	14972.3	11638.7
32.5°	15200.7	15239.3	14793.3	14182.2	13642.7	13430.7	13510.5	13843.6	14983.3	15831.1	11993.8
35°	17358.9	17400.2	16742.3	15935.7	15076.9	14757.5	14837.4	15173.2	16131.2	17050.6	12560.8
37.5°	19489.5	19544.6	18878.4	18126.9	16948.7	16420.2	16502.8	16822.1	17854.4	18735.3	13469.3
40°	20962.3	21036.6	20830.1	20323.6	19230.8	18537.1	18636.2	18751.8	19751.1	20750.3	14647.4
42.5°	21738.5	21843.1	21931.2	22190.0	21614.7	21033.8	20865.9	20874.2	21680.7	22803.9	15872.4
45°	21785.3	21887.2	22338.6	23337.9	23775.6	23654.5	23348.9	23142.5	23153.5	24172.0	16637.7
47.5°	20271.3	20461.3	21306.4	23263.6	24909.7	25914.5	25760.3	25270.3	23772.8	24262.8	16555.1
50°	16684.5	16871.7	18407.7	21223.8	24083.9	26817.4	27453.3	26795.4	23368.2	23131.4	15704.5
52.5°	12117.6	12136.9	13133.4	16423.0	20736.5	25152.0	26649.5	26586.2	22751.6	21760.6	14542.8
55°	5756.0	5687.2	6807.6	9268.5	14341.9	20342.9	22867.2	23582.9	21876.2	20769.6	13642.7
57.5°	1676.4	1709.5	2207.7	3617.1	7173.7	13001.3	15660.5	16992.8	17956.3	17075.4	10581.6
60°	751.5	754.3	839.6	1101.1	2389.4	6047.8	8095.9	9744.8	10735.8	9948.5	5249.5
62.5°	545.0	547.8	580.8	622.1	812.1	2048.1	3036.3	4046.6	4120.9	2697.7	1329.6
65°	454.2	454.2	459.7	459.7	487.2	732.2	922.2	1189.2	1002.0	743.2	520.3
67.5°	366.1	368.9	374.4	374.4	366.1	366.1	396.4	434.9	465.2	575.3	479.0
70°	286.3	283.5	283.5	286.3	278.0	236.7	256.0	291.8	319.3	448.7	415.7
72.5°	223.0	225.7	223.0	212.0	192.7	140.4	151.4	189.9	203.7	280.8	280.8
75°	167.9	170.7	159.7	121.1	79.8	44.0	57.8	93.6	118.4	137.6	101.9
77.5°	22.0	22.0	16.5	16.5	13.8	16.5	16.5	22.0	33.0	33.0	24.8
80°	2.8	2.8	2.8	5.5	8.3	11.0	11.0	11.0	11.0	13.8	13.8
82.5°	2.8	2.8	2.8	2.8	8.3	8.3	11.0	11.0	11.0	11.0	11.0
85°	0.0	0.0	0.0	2.8	5.5	8.3	8.3	11.0	11.0	11.0	11.0
87.5°	0.0	0.0	0.0	2.8	5.5	8.3	8.3	8.3	11.0	11.0	11.0
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°	8762.0	8762.0	8762.0	8762.0	8762.0	8762.0	8762.0	8762.0	8762.0	8762.0	8762.0
2.5°	8775.8	8616.1	8423.4	8291.3	8104.1	7980.3	7804.1	7685.7	7583.9	7504.0	7548.1
5°	8778.6	8525.3	8131.7	7795.8	7429.7	7093.9	6733.3	6449.7	6193.7	6078.1	6141.4
7.5°	8833.6	8470.2	7867.4	7270.0	6568.1	5874.4	5224.7	4696.2	4434.7	4310.8	4349.4
10°	8941.0	8445.5	7572.8	6581.8	5442.2	4495.3	3864.9	3507.0	3361.1	3284.0	3297.8
12.5°	9040.1	8429.0	7190.2	5676.2	4294.3	3487.7	3160.2	3110.6	3140.9	3143.7	3140.9
15°	9174.9	8398.7	6716.7	4745.8	3435.4	3014.3	3022.5	3094.1	3165.7	3187.7	3182.2
17.5°	9318.1	8351.9	6105.6	3853.9	2915.2	2876.6	2973.0	3069.3	3140.9	3151.9	3154.7
20°	9466.7	8255.5	5409.2	3146.4	2672.9	2772.0	2879.4	2951.0	3003.3	3019.8	3025.3
22.5°	9535.6	8051.8	4605.4	2639.9	2510.5	2642.6	2722.5	2816.1	2832.6	2772.0	2783.0
25°	9499.8	7707.7	3820.8	2298.6	2348.1	2480.2	2598.6	2551.8	2483.0	2438.9	2452.7
27.5°	9386.9	7250.8	3052.8	2048.1	2174.7	2342.6	2356.4	2304.1	2293.0	2257.3	2268.3
30°	9265.8	6725.0	2455.5	1847.1	1998.5	2174.7	2133.4	2152.7	2155.4	2114.1	2127.9
32.5°	9191.5	6174.4	1954.5	1712.2	1885.6	1918.7	2001.3	2039.8	2042.5	1946.2	1962.7
35°	9216.2	5632.1	1654.4	1602.1	1781.0	1772.8	1888.4	1910.4	1750.8	1618.6	1632.4
37.5°	9417.2	5131.1	1483.7	1516.8	1599.4	1662.7	1750.8	1604.9	1569.1	1508.5	1516.8
40°	9791.6	4704.5	1381.9	1464.5	1475.5	1577.3	1442.4	1461.7	1464.5	1425.9	1434.2
42.5°	10229.3	4349.4	1321.3	1434.2	1406.7	1423.2	1288.3	1326.8	1368.1	1351.6	1354.4
45°	10449.5	4002.5	1269.0	1329.6	1337.8	1180.9	1150.7	1191.9	1244.2	1252.5	1255.3
47.5°	10254.0	3672.2	1214.0	1178.2	1233.2	1076.3	1040.5	1054.3	1114.9	1147.9	1153.4
50°	9656.7	3292.3	1131.4	1043.3	1013.0	966.2	933.2	935.9	1004.8	1062.6	1073.6
52.5°	8817.1	2895.9	996.5	883.6	814.8	850.6	858.9	842.3	905.7	963.5	974.5
55°	8002.3	2400.4	790.0	718.5	655.2	732.2	754.3	732.2	751.5	790.0	792.8
57.5°	5634.9	1357.1	605.6	594.6	542.3	627.6	663.4	630.4	597.3	622.1	627.6
60°	2612.4	710.2	465.2	465.2	451.5	539.5	600.1	553.3	490.0	501.0	509.3
62.5°	817.6	448.7	341.3	322.1	368.9	459.7	509.3	462.5	388.1	388.1	399.2
65°	462.5	385.4	269.8	247.7	300.1	368.9	399.2	349.6	283.5	278.0	278.0
67.5°	429.4	366.1	239.5	201.0	212.0	236.7	247.7	214.7	195.4	192.7	195.4
70°	355.1	305.6	192.7	137.6	129.4	126.6	132.1	123.9	118.4	121.1	129.4
72.5°	220.2	184.4	121.1	82.6	71.6	68.8	68.8	68.8	66.1	66.1	66.1
75°	79.8	68.8	55.1	41.3	35.8	33.0	33.0	35.8	33.0	30.3	27.5
77.5°	24.8	22.0	22.0	22.0	19.3	16.5	13.8	13.8	11.0	8.3	8.3
80°	13.8	13.8	13.8	13.8	11.0	11.0	8.3	5.5	2.8	2.8	0.0
82.5°	13.8	13.8	13.8	11.0	11.0	11.0	8.3	5.5	2.8	0.0	0.0
85°	11.0	11.0	11.0	11.0	11.0	11.0	8.3	5.5	2.8	0.0	0.0
87.5°	11.0	11.0	11.0	11.0	11.0	11.0	8.3	5.5	2.8	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)