

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: P640662

Luminaire Tested: GWS-SA5E-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640662
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27886 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

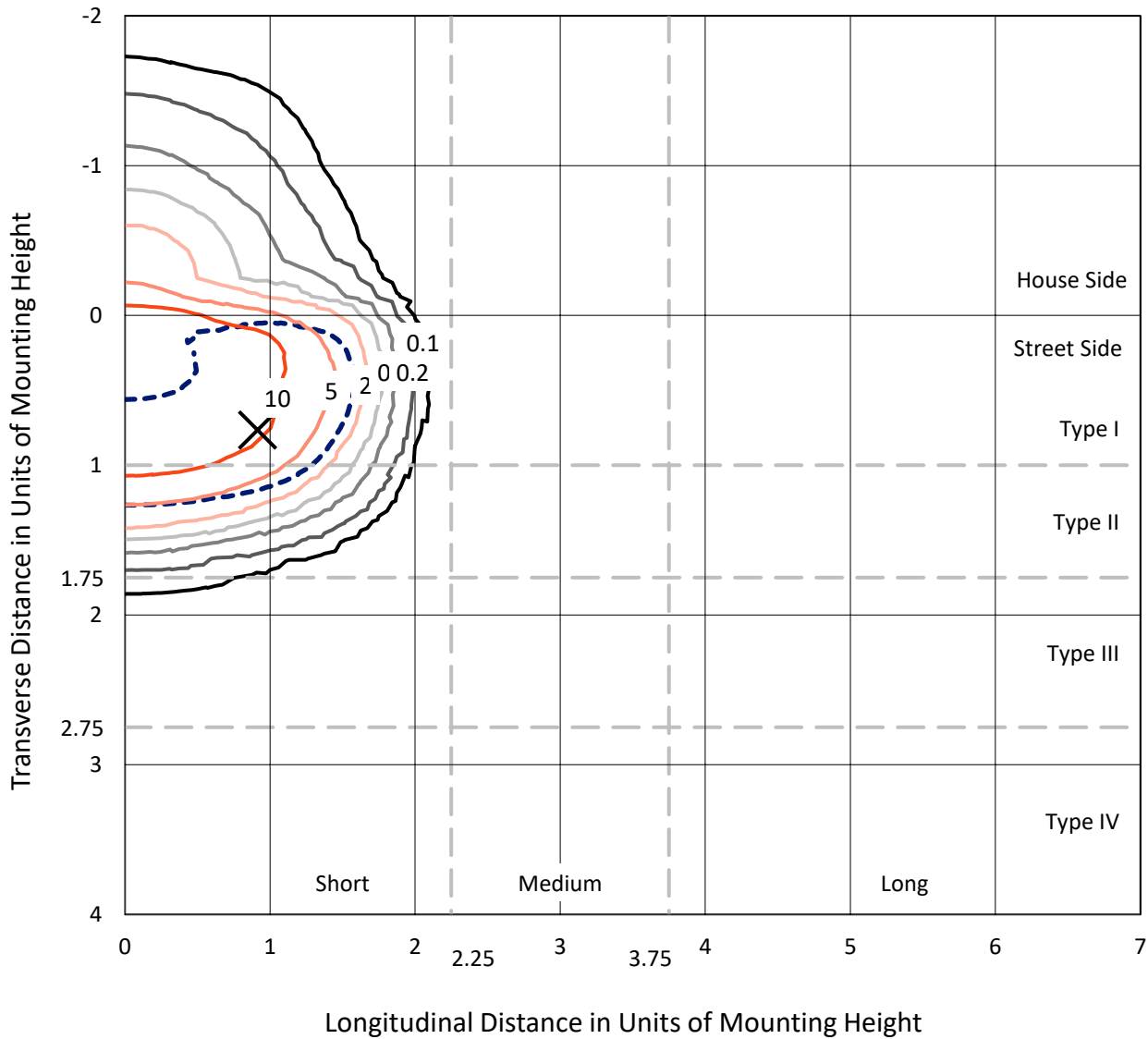
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

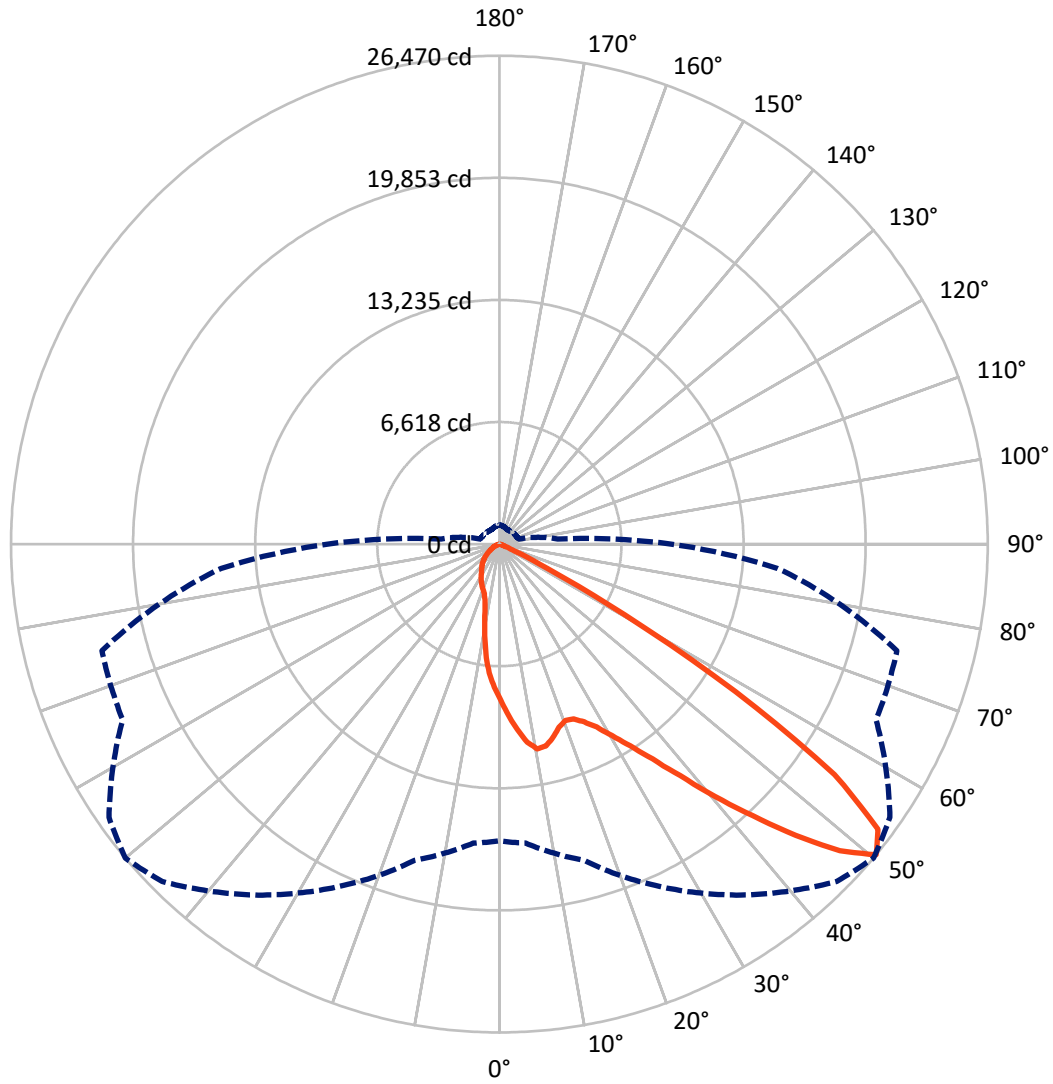
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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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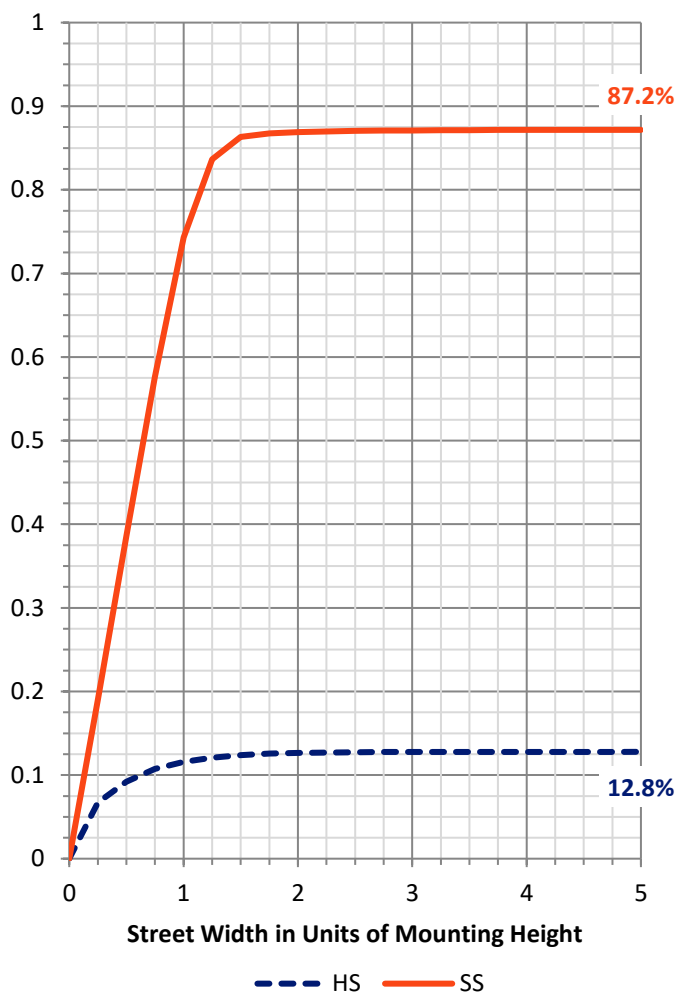
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3582.9	0.0	3582.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	24303.1	0.0	24303.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	27886.0	0.0	27886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.7	2.8
10°-20°	2022.0	7.3
20°-30°	3337.1	12.0
30°-40°	5506.9	19.7
40°-50°	8713.2	31.2
50°-60°	6596.9	23.7
60°-70°	825.6	3.0
70°-80°	93.4	0.3
80°-90°	7.1	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°	27886.0	100.0
0°-180°	27886.0	100.0

Coefficient of Utilization



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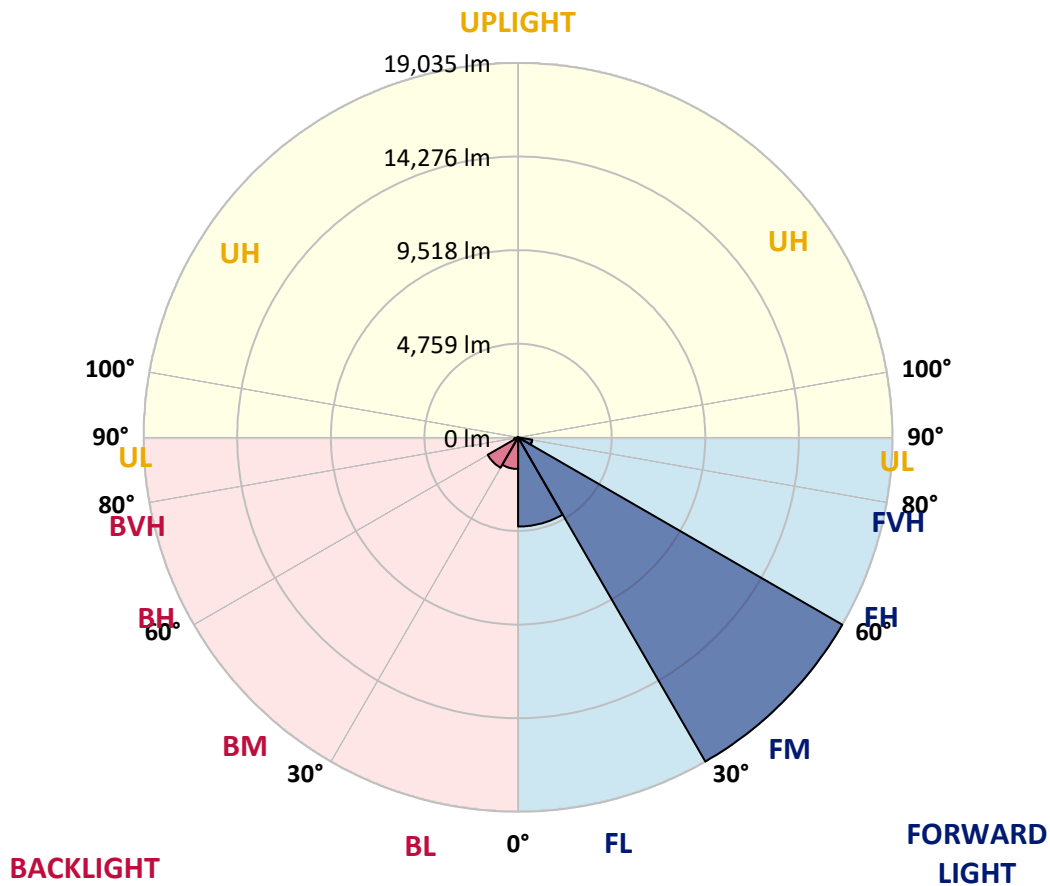
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4534.7	16.3			
FM (30°-60°)	19035.1	68.3			
FH (60°-80°)	730.0	2.6			G1/1800
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	1608.2	5.8	B3/2500		
BM (30°-60°)	1781.9	6.4	B2/2500		
BH (60°-80°)	189.1	0.7	B1/500		G1/500
BVH (80°-90°)	3.8	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°	8448.3	8448.3	8448.3	8448.3	8448.3	8448.3	8448.3	8448.3	8448.3	8448.3	8448.3
2.5°	9626.8	9703.8	9682.6	9581.7	9472.9	9395.9	9276.5	9239.3	8968.6	8780.1	8581.1
5°	10789.4	10813.3	10786.7	10664.6	10473.5	10290.4	10094.0	9979.8	9526.0	9117.2	8700.5
7.5°	11068.1	11038.9	11089.3	11150.3	11123.8	11044.2	10837.1	10712.4	10170.9	9504.7	8873.0
10°	10197.5	10131.1	10319.6	10635.4	10967.2	11341.4	11288.4	11299.0	10800.0	9993.1	9098.6
12.5°	9042.9	9016.4	9157.0	9523.3	10173.6	11022.9	11227.3	11569.7	11375.9	10521.3	9356.1
15°	8535.9	8549.2	8634.1	8865.1	9332.2	10388.6	10879.6	11498.0	11890.9	11033.5	9640.1
17.5°	8612.9	8660.7	8658.0	8735.0	9019.0	9865.7	10439.0	11272.4	12289.0	11622.8	9966.6
20°	9135.8	9183.6	9111.9	9053.5	9149.1	9733.0	10208.1	11044.2	12557.1	12217.3	10311.6
22.5°	9918.8	9974.5	9804.7	9637.4	9576.4	9950.6	10295.7	10951.3	12761.4	12761.4	10619.5
25°	10866.3	10943.3	10680.5	10383.3	10213.4	10409.8	10669.9	11161.0	12971.1	13249.8	10829.2
27.5°	11925.4	11928.0	11702.4	11368.0	11049.5	11073.4	11230.0	11633.4	13202.0	13775.3	10993.7
30°	13117.1	13125.1	12825.1	12424.4	12023.6	11914.7	12047.5	12352.7	13682.5	14436.2	11222.0
32.5°	14656.5	14693.7	14263.7	13674.5	13154.3	12949.9	13026.9	13348.0	14446.9	15264.4	11564.4
35°	16737.4	16777.3	16142.9	15365.2	14537.1	14229.2	14306.2	14630.0	15553.7	16440.2	12111.2
37.5°	18791.8	18844.9	18202.6	17478.0	16342.0	15832.4	15912.0	16219.9	17215.2	18064.6	12987.0
40°	20211.8	20283.5	20084.4	19596.0	18542.3	17873.4	17969.0	18080.5	19044.0	20007.4	14123.0
42.5°	20960.3	21061.2	21146.1	21395.6	20840.9	20280.8	20118.9	20126.9	20904.6	21987.5	15304.2
45°	21005.4	21103.6	21538.9	22502.4	22924.4	22807.6	22513.0	22313.9	22324.6	23306.6	16042.0
47.5°	19545.6	19728.7	20543.6	22430.7	24017.9	24986.7	24838.1	24365.6	22921.8	23394.2	15962.4
50°	16087.2	16267.7	17748.7	20464.0	23221.7	25857.3	26470.4	25836.1	22531.6	22303.3	15142.3
52.5°	11683.8	11702.4	12663.2	15835.0	19994.2	24251.5	25695.4	25634.4	21937.0	20981.5	14022.2
55°	5550.0	5483.6	6563.9	8936.7	13828.4	19614.6	22048.5	22738.6	21093.0	20026.0	13154.3
57.5°	1616.4	1648.3	2128.7	3487.6	6916.9	12535.8	15099.8	16384.4	17313.4	16464.1	10202.8
60°	724.6	727.3	809.5	1061.7	2303.9	5831.3	7806.0	9395.9	10351.4	9592.3	5061.6
62.5°	525.5	528.2	560.0	599.9	783.0	1974.7	2927.6	3901.7	3973.4	2601.1	1282.0
65°	437.9	437.9	443.3	443.3	469.8	706.0	889.2	1146.6	966.1	716.6	501.6
67.5°	353.0	355.7	361.0	361.0	353.0	353.0	382.2	419.4	448.6	554.7	461.8
70°	276.0	273.4	273.4	276.0	268.1	228.3	246.8	281.3	307.9	432.6	400.8
72.5°	215.0	217.6	215.0	204.4	185.8	135.4	146.0	183.1	196.4	270.7	270.7
75°	161.9	164.6	153.9	116.8	77.0	42.5	55.7	90.2	114.1	132.7	98.2
77.5°	21.2	21.2	15.9	15.9	13.3	15.9	15.9	21.2	31.9	31.9	23.9
80°	2.7	2.7	2.7	5.3	8.0	10.6	10.6	10.6	10.6	13.3	13.3
82.5°	2.7	2.7	2.7	2.7	8.0	8.0	10.6	10.6	10.6	10.6	10.6
85°	0.0	0.0	0.0	2.7	5.3	8.0	8.0	10.6	10.6	10.6	10.6
87.5°	0.0	0.0	0.0	2.7	5.3	8.0	8.0	8.0	10.6	10.6	10.6
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°	8448.3	8448.3	8448.3	8448.3	8448.3	8448.3	8448.3	8448.3	8448.3	8448.3	8448.3
2.5°	8461.6	8307.7	8121.9	7994.5	7814.0	7694.6	7524.7	7410.6	7312.3	7235.4	7277.8
5°	8464.3	8220.1	7840.5	7516.7	7163.7	6839.9	6492.2	6218.8	5972.0	5860.5	5921.5
7.5°	8517.4	8167.0	7585.7	7009.8	6332.9	5664.1	5037.7	4528.1	4275.9	4156.5	4193.7
10°	8620.9	8143.1	7301.7	6346.2	5247.4	4334.3	3726.5	3381.5	3240.8	3166.5	3179.7
12.5°	8716.4	8127.2	6932.8	5473.0	4140.6	3362.9	3047.0	2999.3	3028.5	3031.1	3028.5
15°	8846.5	8098.0	6476.3	4575.9	3312.5	2906.4	2914.3	2983.3	3052.3	3073.6	3068.3
17.5°	8984.5	8052.9	5887.0	3715.9	2810.8	2773.6	2866.5	2959.4	3028.5	3039.1	3041.7
20°	9127.8	7960.0	5215.5	3033.8	2577.2	2672.8	2776.3	2845.3	2895.7	2911.7	2917.0
22.5°	9194.2	7763.6	4440.5	2545.4	2420.6	2548.0	2625.0	2715.3	2731.2	2672.8	2683.4
25°	9159.7	7431.8	3684.0	2216.3	2264.0	2391.4	2505.6	2460.5	2394.1	2351.6	2364.9
27.5°	9050.9	6991.2	2943.5	1974.7	2096.8	2258.7	2272.0	2221.6	2211.0	2176.5	2187.1
30°	8934.1	6484.2	2367.6	1781.0	1927.0	2096.8	2057.0	2075.6	2078.2	2038.4	2051.7
32.5°	8862.4	5953.4	1884.5	1650.9	1818.1	1850.0	1929.6	1966.8	1969.4	1876.5	1892.5
35°	8886.3	5430.5	1595.2	1544.8	1717.3	1709.3	1820.8	1842.0	1688.1	1560.7	1573.9
37.5°	9080.1	4947.4	1430.6	1462.5	1542.1	1603.1	1688.1	1547.4	1512.9	1454.5	1462.5
40°	9441.0	4536.0	1332.4	1412.0	1422.7	1520.9	1390.8	1409.4	1412.0	1374.9	1382.8
42.5°	9863.0	4193.7	1274.0	1382.8	1356.3	1372.2	1242.2	1279.3	1319.1	1303.2	1305.9
45°	10075.4	3859.2	1223.6	1282.0	1289.9	1138.7	1109.5	1149.3	1199.7	1207.7	1210.3
47.5°	9886.9	3540.7	1170.5	1136.0	1189.1	1037.8	1003.3	1016.6	1075.0	1106.8	1112.1
50°	9311.0	3174.4	1090.9	1005.9	976.7	931.6	899.8	902.4	968.8	1024.5	1035.1
52.5°	8501.4	2792.2	960.8	852.0	785.6	820.2	828.1	812.2	873.2	929.0	939.6
55°	7715.8	2314.5	761.8	692.7	631.7	706.0	727.3	706.0	724.6	761.8	764.4
57.5°	5433.2	1308.5	583.9	573.3	522.9	605.2	639.7	607.8	576.0	599.9	605.2
60°	2518.8	684.8	448.6	448.6	435.3	520.2	578.6	533.5	472.4	483.1	491.0
62.5°	788.3	432.6	329.1	310.5	355.7	443.3	491.0	445.9	374.2	374.2	384.9
65°	445.9	371.6	260.1	238.9	289.3	355.7	384.9	337.1	273.4	268.1	268.1
67.5°	414.1	353.0	230.9	193.8	204.4	228.3	238.9	207.0	188.4	185.8	188.4
70°	342.4	294.6	185.8	132.7	124.7	122.1	127.4	119.4	114.1	116.8	124.7
72.5°	212.3	177.8	116.8	79.6	69.0	66.4	66.4	66.4	63.7	63.7	63.7
75°	77.0	66.4	53.1	39.8	34.5	31.9	31.9	34.5	31.9	29.2	26.5
77.5°	23.9	21.2	21.2	21.2	18.6	15.9	13.3	13.3	10.6	8.0	8.0
80°	13.3	13.3	13.3	13.3	10.6	10.6	8.0	5.3	2.7	2.7	0.0
82.5°	13.3	13.3	13.3	10.6	10.6	10.6	8.0	5.3	2.7	0.0	0.0
85°	10.6	10.6	10.6	10.6	10.6	10.6	8.0	5.3	2.7	0.0	0.0
87.5°	10.6	10.6	10.6	10.6	10.6	10.6	8.0	5.3	2.7	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)