

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: P642588

Luminaire Tested: GWS-SA6D-730-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-730-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29592.7 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

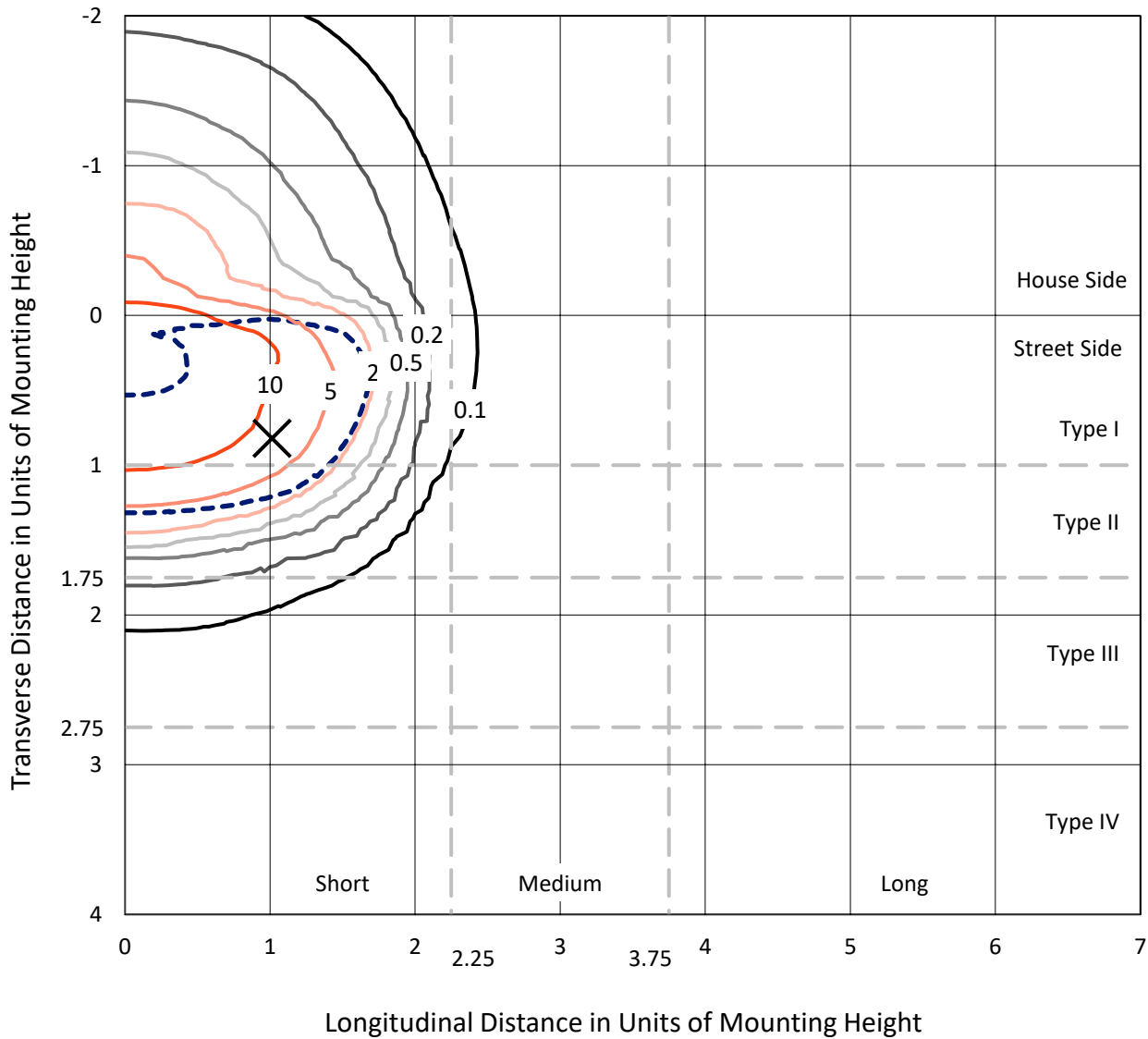
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

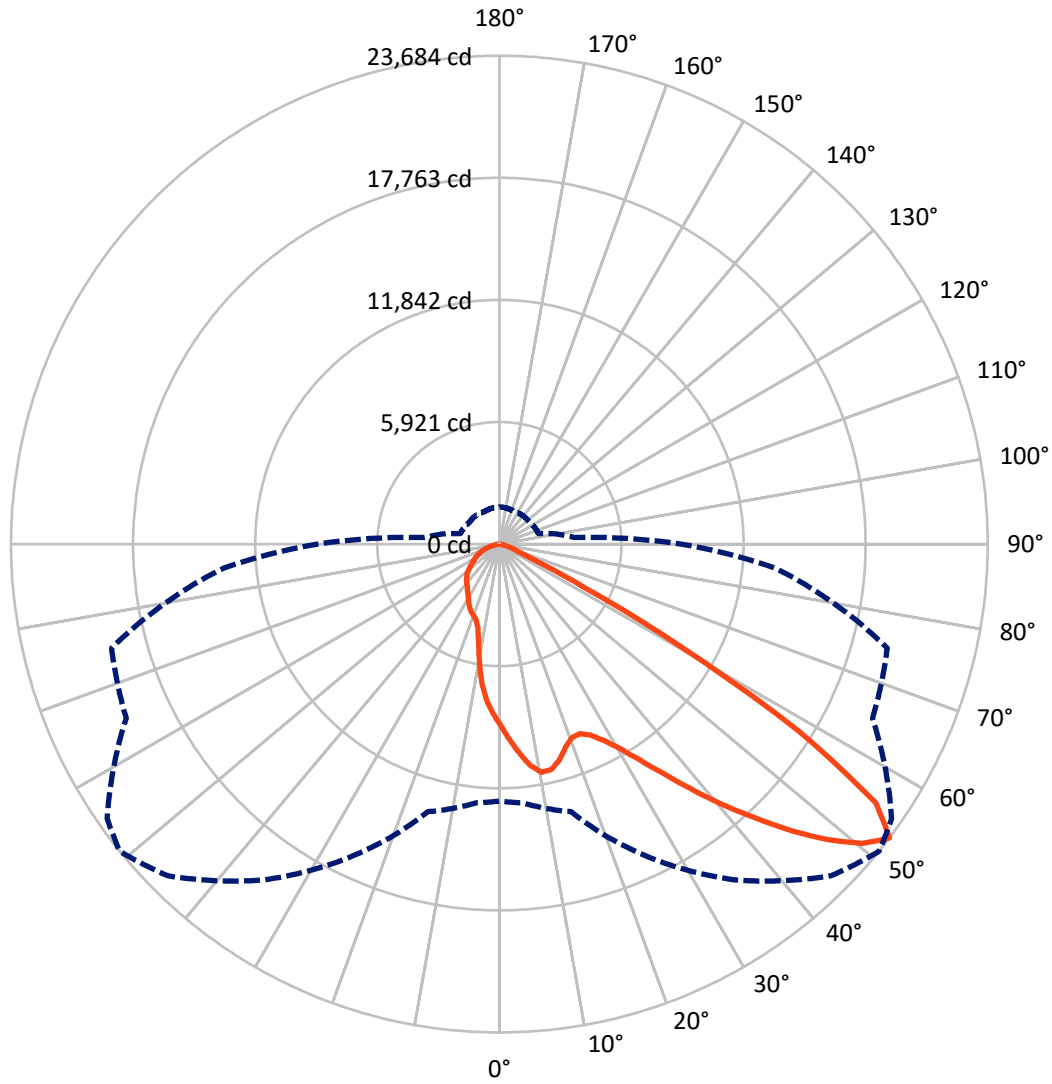
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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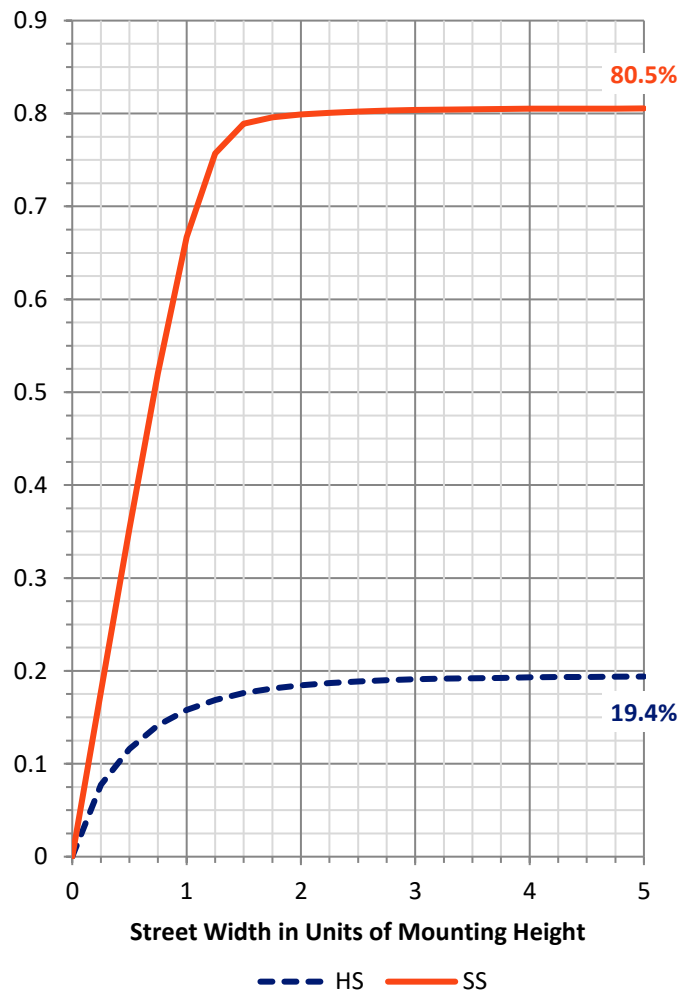
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5765.9	0.0	5765.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	23826.8	0.0	23826.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	29592.7	0.0	29592.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.2	2.8
10°-20°	2136.4	7.2
20°-30°	3473.7	11.7
30°-40°	5505.0	18.6
40°-50°	8302.7	28.1
50°-60°	7182.5	24.3
60°-70°	1628.3	5.5
70°-80°	480.1	1.6
80°-90°	61.8	0.2
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°	29592.7	100.0
0°-180°	29592.7	100.0

Coefficient of Utilization



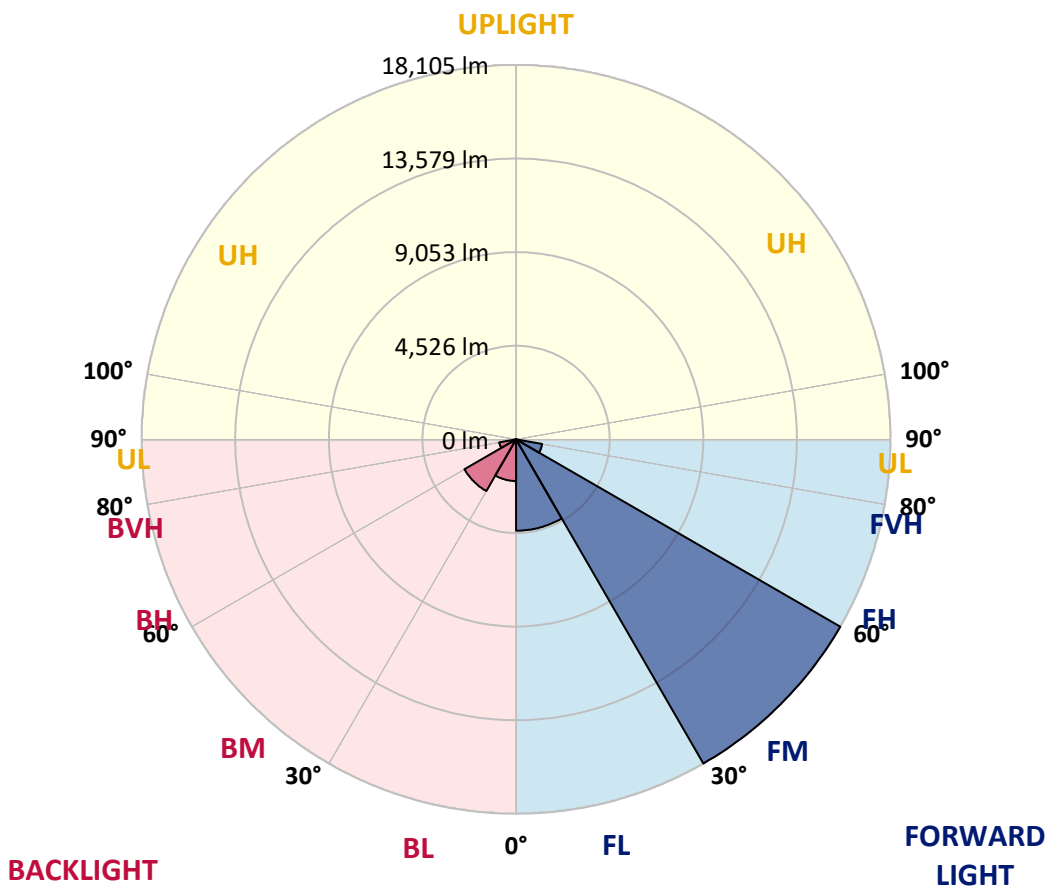
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4416.8	14.9			
FM (30°-60°)	18105.2	61.2			
FH (60°-80°)	1281.5	4.3			G1/1800
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	2015.5	6.8	B3/2500		
BM (30°-60°)	2884.9	9.7	B3/5000		
BH (60°-80°)	827.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	38.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	8811.2	8811.2	8811.2	8811.2	8811.2	8811.2	8811.2	8811.2	8811.2	8811.2	8811.2
2.5°	9819.1	9875.2	9788.7	9756.0	9702.2	9608.6	9501.1	9470.7	9239.2	9087.2	8916.5
5°	10805.9	10836.3	10766.2	10696.0	10562.7	10396.7	10188.6	10144.1	9723.2	9374.8	9012.3
7.5°	11025.7	11014.0	11074.8	11114.6	11098.2	11032.7	10848.0	10761.5	10258.7	9706.8	9171.3
10°	10155.8	10090.3	10314.8	10581.4	10901.8	11271.3	11250.2	11243.2	10805.9	10153.5	9374.8
12.5°	9003.0	8970.2	9152.6	9487.0	10092.7	10911.1	11217.5	11456.0	11299.3	10579.1	9601.6
15°	8343.5	8331.8	8455.8	8696.6	9178.4	10211.9	10866.7	11339.1	11722.6	11035.1	9842.5
17.5°	8224.3	8231.3	8273.4	8411.4	8757.4	9608.6	10366.3	11025.7	12052.3	11535.5	10144.1
20°	8572.7	8619.5	8547.0	8568.0	8755.1	9391.2	10024.9	10710.0	12262.8	12038.3	10469.2
22.5°	9346.7	9330.4	9171.3	9077.8	9080.1	9524.4	9987.5	10562.7	12400.7	12527.0	10763.8
25°	10223.6	10204.9	10015.5	9807.4	9676.4	9886.9	10256.4	10719.4	12524.7	12973.6	11000.0
27.5°	11259.6	11201.1	10990.6	10724.1	10434.1	10525.3	10775.5	11142.6	12716.4	13413.3	11156.7
30°	12262.8	12330.6	12028.9	11713.2	11406.9	11350.8	11495.7	11827.8	13106.9	13927.7	11343.7
32.5°	13593.3	13569.9	13235.5	12824.0	12386.7	12344.6	12459.2	12763.2	13808.5	14638.6	11629.0
35°	15204.5	15209.2	14734.5	14177.9	13555.9	13443.7	13635.4	13930.1	14853.7	15602.0	12080.4
37.5°	16878.8	16871.8	16457.9	15826.5	14977.7	14818.7	15038.5	15258.3	16160.9	16913.9	12781.9
40°	18052.7	18099.5	17905.4	17573.3	16768.9	16380.7	16574.8	16726.8	17582.7	18457.3	13705.6
42.5°	18719.2	18789.3	18831.4	19030.2	18606.9	18193.0	18122.9	18202.4	18852.5	19890.7	14573.1
45°	18861.8	18955.4	19261.7	19998.3	20162.0	20045.1	19815.9	19624.1	19799.5	20907.9	15141.4
47.5°	18232.8	18396.5	19051.2	20339.7	21296.1	21663.3	21408.4	21116.1	20346.7	21169.9	15082.9
50°	15740.0	15931.8	17407.3	19642.9	21457.5	22795.1	22818.4	22385.8	20281.2	20414.5	14348.6
52.5°	12461.5	12592.5	13436.6	16652.0	19874.4	22748.3	23683.7	23220.7	19965.6	19469.8	13429.6
55°	7447.9	7658.4	8446.4	10986.0	15482.8	20162.0	22154.3	22378.8	19811.2	18677.1	12802.9
57.5°	2513.8	2616.7	3369.7	4852.3	9124.6	14762.5	17117.3	18029.3	17984.9	17465.8	11579.9
60°	1197.3	1220.7	1372.7	1840.3	3652.6	7714.5	10132.4	11184.7	12143.5	12239.4	7204.7
62.5°	912.0	926.0	1003.2	1103.7	1468.5	3250.4	4644.1	5448.6	5820.4	4994.9	2623.7
65°	762.3	774.0	832.5	895.6	998.5	1407.7	1781.9	2055.5	1852.0	1442.8	1251.1
67.5°	636.1	645.4	689.8	757.7	827.8	942.4	989.2	1017.2	1066.3	1197.3	1150.5
70°	498.1	507.4	554.2	612.7	680.5	708.5	753.0	781.0	879.3	1047.6	1042.9
72.5°	383.5	395.2	420.9	458.3	514.5	542.5	591.6	624.4	680.5	816.1	872.2
75°	280.6	287.6	311.0	322.7	329.7	322.7	371.8	409.2	484.1	535.5	549.5
77.5°	114.6	128.6	123.9	123.9	147.3	177.7	203.4	226.8	278.3	308.7	311.0
80°	46.8	51.4	60.8	67.8	81.8	105.2	121.6	131.0	154.3	173.0	187.1
82.5°	28.1	30.4	35.1	37.4	46.8	60.8	70.2	77.2	95.9	114.6	121.6
85°	14.0	14.0	16.4	18.7	23.4	28.1	32.7	37.4	49.1	60.8	67.8
87.5°	2.3	2.3	2.3	4.7	7.0	9.4	11.7	14.0	16.4	18.7	23.4
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°	8811.2	8811.2	8811.2	8811.2	8811.2	8811.2	8811.2	8811.2	8811.2	8811.2	8811.2
2.5°	8815.9	8689.6	8542.3	8425.4	8289.8	8189.2	8046.6	7957.7	7873.5	7803.4	7751.9
5°	8825.3	8612.5	8306.1	8034.9	7754.3	7487.7	7214.1	6991.9	6793.2	6627.1	6613.1
7.5°	8879.0	8572.7	8093.3	7618.6	7071.4	6542.9	6014.5	5584.2	5256.8	5086.1	5051.0
10°	8970.2	8568.0	7875.8	7118.2	6185.2	5334.0	4707.3	4379.9	4190.5	4122.7	4099.3
12.5°	9066.1	8556.3	7597.6	6412.0	5116.5	4370.5	4026.8	3987.0	4022.1	4026.8	4024.4
15°	9183.0	8549.3	7246.8	5584.2	4335.5	3923.9	3947.3	4031.5	4113.3	4132.0	4132.0
17.5°	9325.7	8532.9	6769.8	4775.1	3846.7	3837.4	3961.3	4073.6	4150.7	4164.8	4164.8
20°	9475.3	8490.9	6182.8	4115.6	3648.0	3783.6	3916.9	4003.4	4057.2	4075.9	4078.2
22.5°	9578.2	8378.6	5507.0	3626.9	3524.0	3680.7	3776.6	3865.4	3865.4	3818.7	3804.6
25°	9599.3	8137.8	4775.1	3292.5	3376.7	3521.7	3619.9	3568.5	3472.6	3435.2	3432.8
27.5°	9522.1	7787.0	4052.5	3054.0	3199.0	3344.0	3327.6	3252.8	3210.7	3173.3	3187.3
30°	9428.6	7366.1	3425.8	2857.6	2993.2	3135.8	3079.7	3054.0	3023.6	2981.5	2990.9
32.5°	9365.4	6896.0	2944.1	2705.6	2855.2	2878.6	2918.4	2916.0	2888.0	2808.5	2803.8
35°	9384.1	6421.3	2621.4	2581.6	2740.6	2731.3	2806.1	2792.1	2598.0	2488.1	2481.1
37.5°	9533.8	5965.3	2432.0	2483.4	2558.2	2616.7	2682.2	2513.8	2446.0	2375.9	2380.5
40°	9819.1	5542.1	2329.1	2429.6	2448.3	2534.9	2382.9	2380.5	2350.1	2287.0	2284.7
42.5°	10141.8	5184.3	2258.9	2403.9	2378.2	2394.6	2233.2	2251.9	2249.6	2209.8	2198.1
45°	10338.2	4854.6	2202.8	2308.0	2315.1	2151.4	2102.3	2123.3	2135.0	2113.9	2111.6
47.5°	10134.8	4475.8	2144.3	2160.7	2221.5	2041.5	1980.7	1983.0	2004.0	2006.4	1997.0
50°	9564.2	4052.5	2074.2	2034.4	1994.7	1926.9	1870.7	1859.1	1880.1	1901.1	1908.2
52.5°	8827.6	3648.0	1957.3	1896.5	1802.9	1802.9	1777.2	1739.8	1767.9	1795.9	1805.3
55°	8287.4	3348.6	1791.2	1723.4	1620.5	1655.6	1650.9	1618.2	1655.6	1676.7	1683.7
57.5°	7181.3	2691.5	1576.1	1555.1	1468.5	1510.6	1520.0	1477.9	1459.2	1463.9	1470.9
60°	4263.0	1737.5	1421.8	1419.4	1342.3	1391.4	1419.4	1377.3	1321.2	1328.2	1337.6
62.5°	1912.8	1328.2	1227.7	1218.3	1216.0	1279.1	1309.5	1269.8	1190.3	1197.3	1206.6
65°	1204.3	1148.2	1066.3	1066.3	1103.7	1157.5	1180.9	1148.2	1057.0	1045.3	1054.6
67.5°	1117.8	1068.7	984.5	968.1	986.8	1031.2	1033.6	970.5	916.7	907.3	907.3
70°	1003.2	965.8	883.9	851.2	844.2	841.8	834.8	818.5	783.4	774.0	778.7
72.5°	830.1	804.4	753.0	717.9	699.2	696.9	668.8	654.8	624.4	619.7	617.3
75°	549.5	556.5	556.5	551.9	535.5	528.5	498.1	484.1	449.0	434.9	432.6
77.5°	325.0	332.1	341.4	343.7	341.4	341.4	313.4	297.0	261.9	243.2	238.5
80°	198.8	203.4	208.1	215.1	205.8	198.8	173.0	156.7	140.3	128.6	126.3
82.5°	128.6	133.3	135.6	140.3	135.6	126.3	105.2	95.9	84.2	74.8	72.5
85°	72.5	74.8	79.5	79.5	72.5	65.5	53.8	46.8	39.8	35.1	35.1
87.5°	25.7	25.7	25.7	28.1	23.4	21.0	14.0	9.4	7.0	7.0	7.0
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)