

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: P633762

Luminaire Tested: GWS-SA2F-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10725.7 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

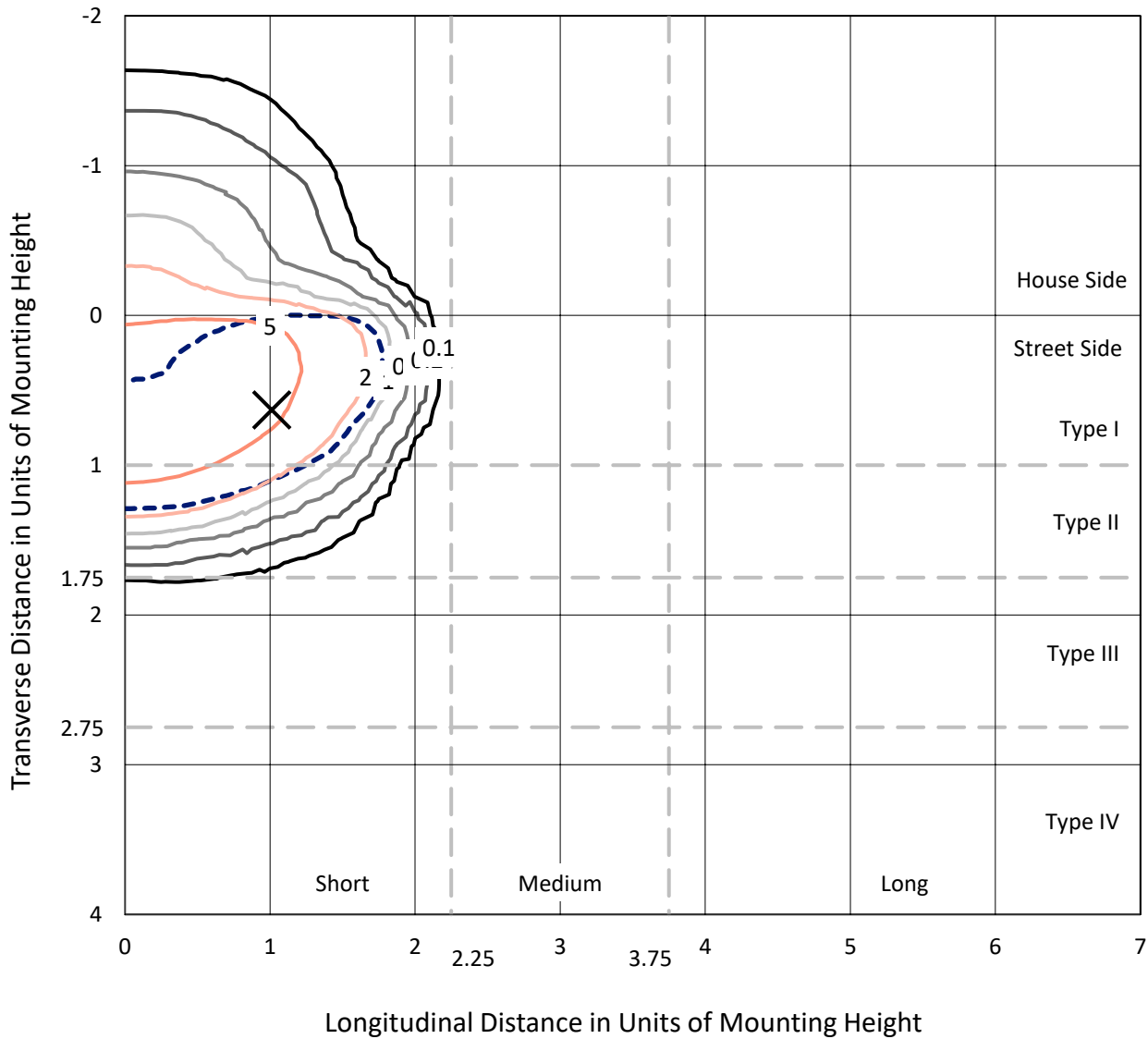
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

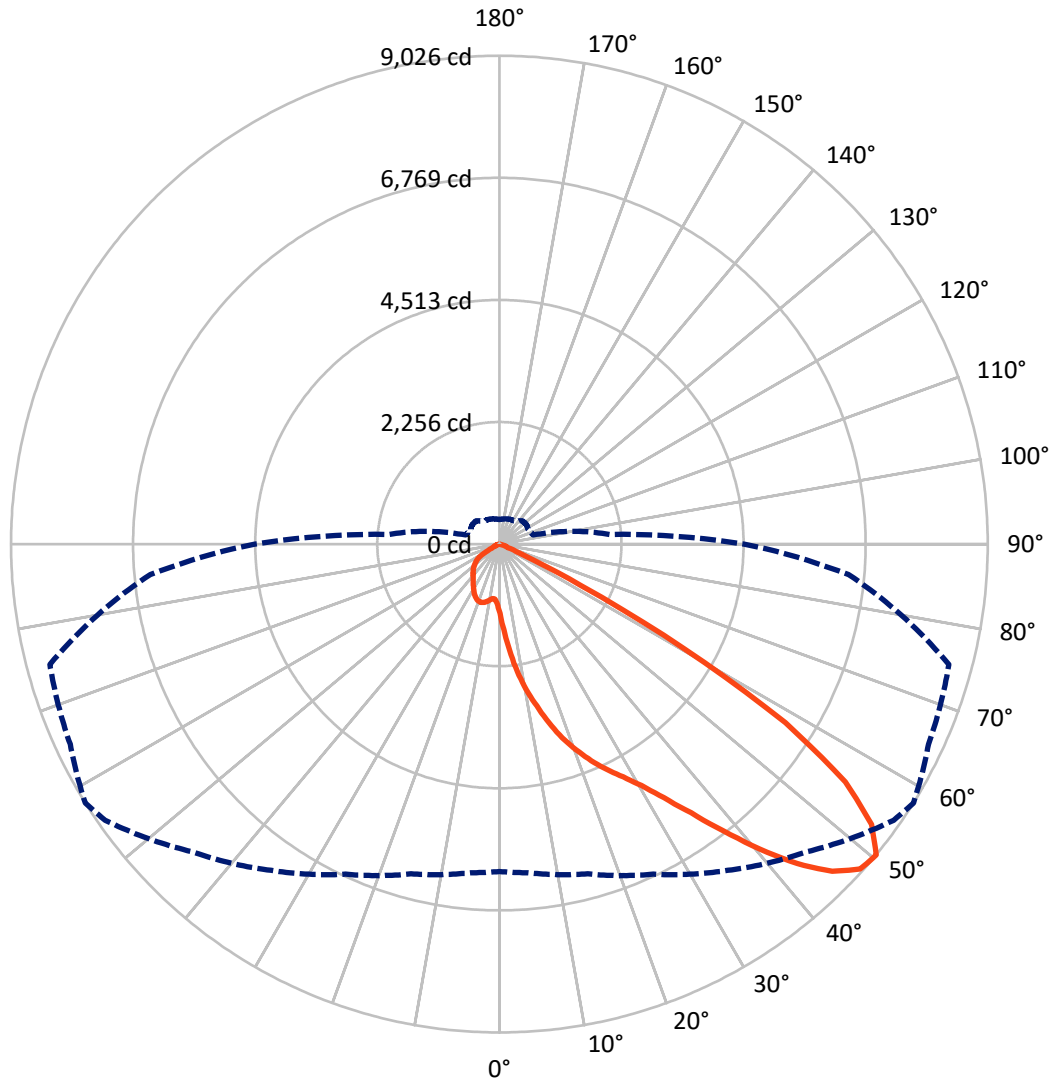
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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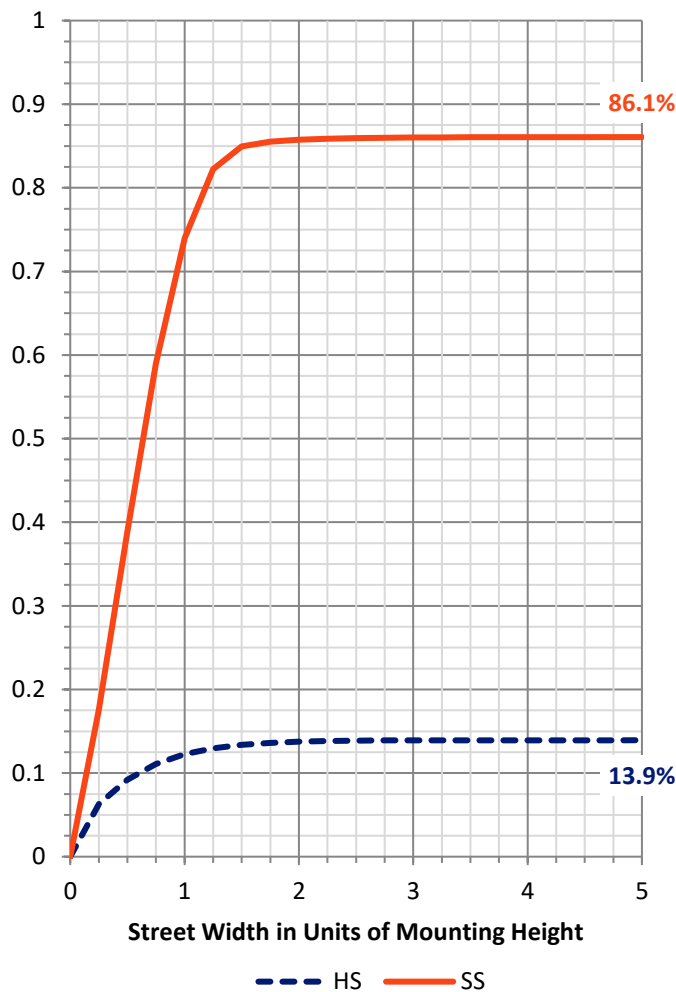
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1502.3	0.0	1502.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9223.4	0.0	9223.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	10725.7	0.0	10725.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	1.5
10°-20°	628.3	5.9
20°-30°	1271.4	11.9
30°-40°	2249.3	21.0
40°-50°	3279.0	30.6
50°-60°	2628.2	24.5
60°-70°	473.5	4.4
70°-80°	37.3	0.3
80°-90°	0.0	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°	10725.7	100.0
0°-180°	10725.7	100.0

Coefficient of Utilization



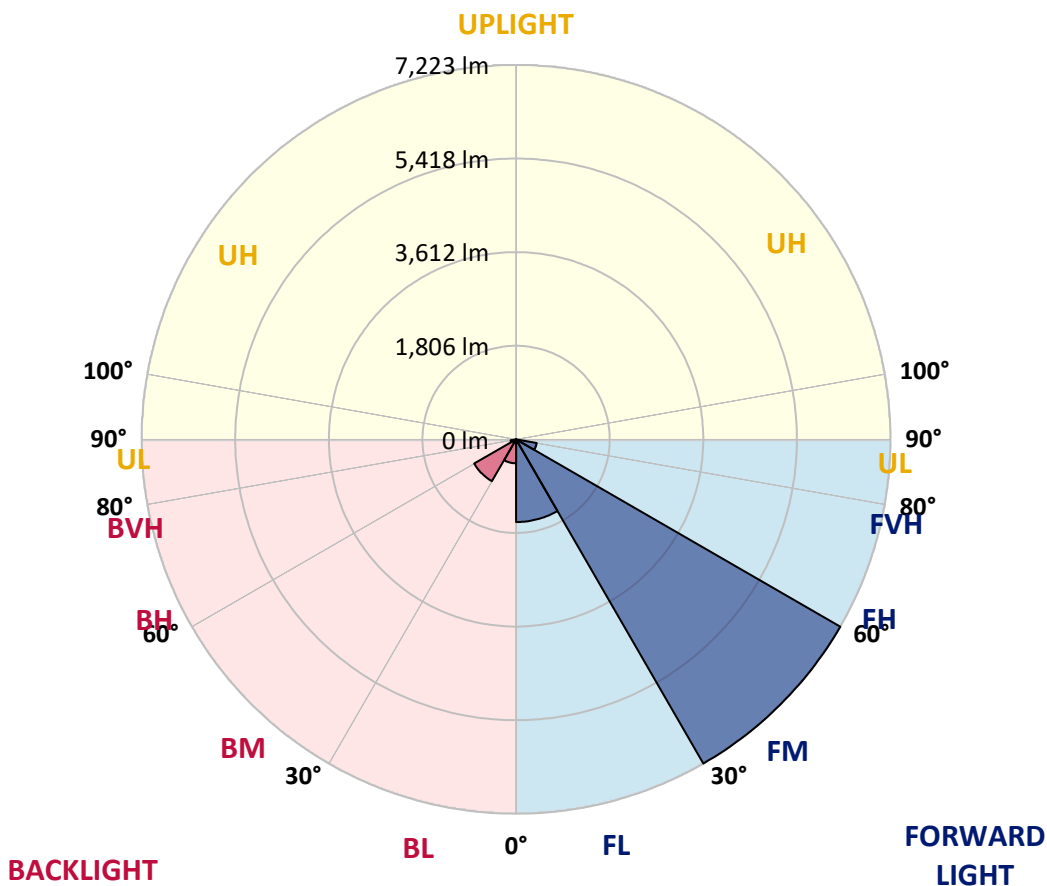
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1596.0	14.9			
FM (30°-60°)	7223.4	67.3			
FH (60°-80°)	404.0	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	462.5	4.3	B1/500		
BM (30°-60°)	933.0	8.7	B1/1000		
BH (60°-80°)	106.8	1.0	B0/110		G0/110
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: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2
2.5°	1895.9	1866.1	1848.9	1835.2	1774.4	1678.0	1614.9	1581.7	1526.6	1433.7	1353.4
5°	2474.0	2452.2	2412.1	2384.6	2306.6	2170.1	2029.0	1972.8	1847.8	1637.9	1449.8
7.5°	2857.1	2841.0	2826.1	2789.4	2716.0	2592.2	2436.2	2377.7	2185.0	1886.8	1578.2
10°	3151.9	3139.3	3122.1	3120.9	3063.6	2952.3	2799.8	2739.0	2530.2	2157.5	1729.6
12.5°	3411.1	3400.8	3397.3	3429.4	3392.7	3310.2	3145.0	3069.3	2847.9	2433.9	1897.1
15°	3588.9	3586.6	3601.5	3664.6	3685.2	3647.4	3508.6	3427.1	3172.5	2711.4	2081.8
17.5°	3670.3	3677.2	3705.9	3814.8	3906.6	3938.7	3832.0	3763.2	3494.8	2992.4	2279.0
20°	3809.1	3806.8	3824.0	3927.2	4039.6	4154.3	4122.2	4063.7	3820.6	3289.5	2498.1
22.5°	4200.2	4166.9	4130.2	4146.3	4186.4	4320.6	4380.3	4350.5	4156.6	3594.6	2724.1
25°	4801.2	4766.8	4648.7	4534.0	4458.3	4519.1	4600.5	4615.4	4490.4	3907.7	2960.3
27.5°	5438.9	5408.0	5274.9	5102.9	4886.1	4780.6	4841.4	4871.2	4818.4	4280.5	3211.5
30°	6036.5	5995.2	5849.6	5636.2	5385.0	5223.3	5154.5	5175.1	5206.1	4722.1	3506.3
32.5°	6554.9	6524.0	6349.6	6124.8	5882.8	5714.2	5553.6	5588.0	5663.7	5262.3	3883.6
35°	6994.2	6978.2	6793.5	6569.8	6314.1	6228.1	6090.4	6097.3	6173.0	5914.9	4343.6
37.5°	7376.2	7348.6	7181.2	6973.6	6770.6	6756.8	6719.0	6722.4	6761.4	6675.4	4872.3
40°	7617.0	7591.8	7472.5	7344.1	7199.5	7201.8	7398.0	7412.9	7368.1	7422.0	5430.9
42.5°	7707.6	7689.3	7625.1	7626.2	7611.3	7679.0	8047.1	8074.7	7914.1	8008.2	5908.0
45°	7550.5	7542.5	7547.1	7712.2	7891.2	8099.9	8578.2	8626.4	8399.3	8397.0	6280.8
47.5°	7043.5	7027.5	7161.7	7442.7	7856.8	8262.8	8899.3	8973.9	8738.8	8619.5	6514.8
50°	6050.3	6096.2	6308.3	6730.4	7360.1	8039.1	8895.9	9025.5	8751.4	8600.0	6475.8
52.5°	4382.6	4373.4	4837.9	5418.3	6184.5	7323.4	8423.4	8612.6	8445.1	8408.4	6388.6
55°	2384.6	2468.3	2781.4	3549.9	4506.4	5968.8	7344.1	7757.0	7950.8	8338.5	6545.8
57.5°	876.3	913.0	1109.1	1652.8	2385.7	3711.6	5609.8	6232.6	6831.4	8143.5	6519.4
60°	353.3	360.1	438.1	607.9	1002.5	1889.1	3365.2	3918.1	4482.4	6233.8	5003.1
62.5°	256.9	266.1	297.1	355.6	507.0	825.8	1450.9	1687.2	1844.3	3087.6	2464.8
65°	207.6	214.5	239.7	266.1	334.9	443.9	468.0	450.8	448.5	798.3	565.5
67.5°	172.0	178.9	197.3	215.6	240.9	221.4	160.6	168.6	137.6	136.5	111.3
70°	126.2	134.2	152.5	172.0	144.5	59.6	92.9	137.6	104.4	87.2	84.9
72.5°	95.2	100.9	118.1	112.4	42.4	22.9	61.9	99.8	80.3	64.2	63.1
75°	71.1	74.6	59.6	18.4	4.6	5.7	22.9	41.3	44.7	36.7	36.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.4	4.6	5.7	6.9
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2
2.5°	1307.5	1259.4	1190.6	1133.2	1089.6	1047.2	1015.1	983.0	981.8	965.7	962.3
5°	1362.6	1275.4	1149.3	1058.7	1003.6	970.3	947.4	935.9	930.2	924.5	922.2
7.5°	1441.7	1316.7	1142.4	1046.0	1000.2	978.4	962.3	955.4	952.0	947.4	946.3
10°	1539.2	1376.4	1167.6	1070.1	1030.0	1009.3	992.1	981.8	976.1	968.0	965.7
12.5°	1656.2	1449.8	1207.8	1110.3	1067.8	1040.3	1017.4	1002.5	994.4	984.1	981.8
15°	1782.4	1528.9	1252.5	1147.0	1096.5	1060.9	1032.3	1009.3	994.4	981.8	978.4
17.5°	1913.1	1609.2	1292.6	1172.2	1110.3	1067.8	1026.5	995.6	977.2	961.2	956.6
20°	2060.0	1691.8	1319.0	1176.8	1105.7	1049.5	1001.3	962.3	944.0	922.2	917.6
22.5°	2213.7	1768.6	1330.5	1166.5	1080.4	1015.1	963.5	923.3	896.9	874.0	867.1
25°	2362.8	1837.4	1324.8	1137.8	1042.6	966.9	914.1	872.8	844.2	821.2	815.5
27.5°	2521.0	1894.8	1304.1	1095.4	991.0	914.1	863.7	828.1	801.7	776.5	770.8
30°	2698.8	1947.6	1270.8	1043.7	930.2	860.2	821.2	797.1	768.5	742.1	734.1
32.5°	2913.3	1994.6	1222.7	981.8	876.3	813.2	791.4	773.1	739.8	712.3	706.5
35°	3158.8	2033.6	1161.9	917.6	823.5	783.4	778.8	754.7	711.1	679.0	672.1
37.5°	3443.2	2071.4	1089.6	854.5	784.5	769.6	770.8	729.5	676.7	637.7	633.1
40°	3749.4	2109.3	1009.3	799.4	749.0	761.6	751.3	692.8	606.7	568.9	564.3
42.5°	4068.3	2150.6	927.9	747.8	719.2	730.6	715.7	619.4	557.4	537.9	535.6
45°	4356.2	2199.9	839.6	696.2	689.3	685.9	660.7	560.9	534.5	520.7	519.6
47.5°	4563.8	2191.9	745.5	646.9	657.2	645.7	568.9	533.3	511.5	493.2	488.6
50°	4525.9	2051.9	648.0	591.8	615.9	605.6	511.5	501.2	481.7	462.2	455.3
52.5°	4429.6	1861.5	563.2	533.3	571.2	547.1	472.6	462.2	445.0	419.8	411.8
55°	4481.2	1682.6	496.6	486.3	525.3	453.1	429.0	412.9	394.6	367.0	363.6
57.5°	4314.9	1372.9	399.1	406.0	464.5	386.5	376.2	351.0	320.0	301.7	299.4
60°	2986.7	737.5	250.0	258.1	336.1	324.6	337.2	314.3	276.4	259.2	255.8
62.5°	1371.8	295.9	136.5	130.8	176.6	220.2	289.0	286.7	239.7	212.2	209.9
65°	332.6	135.3	97.5	91.8	99.8	131.9	188.1	226.0	193.8	161.7	158.3
67.5°	107.8	110.1	89.5	83.7	88.3	98.6	112.4	125.0	123.9	113.6	111.3
70°	86.0	99.8	82.6	75.7	75.7	79.1	75.7	60.8	52.8	57.3	59.6
72.5°	64.2	75.7	65.4	58.5	56.2	55.1	47.0	34.4	24.1	21.8	20.6
75°	37.9	42.4	40.1	34.4	32.1	28.7	22.9	14.9	8.0	5.7	3.4
77.5°	6.9	8.0	9.2	6.9	5.7	4.6	3.4	1.1	0.0	0.0	0.0
80°	0.0	1.1	1.1	1.1	0.0	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)