

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: P636732

Luminaire Tested: GWS-SA4B-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636732
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-SA4B-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9569.8 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

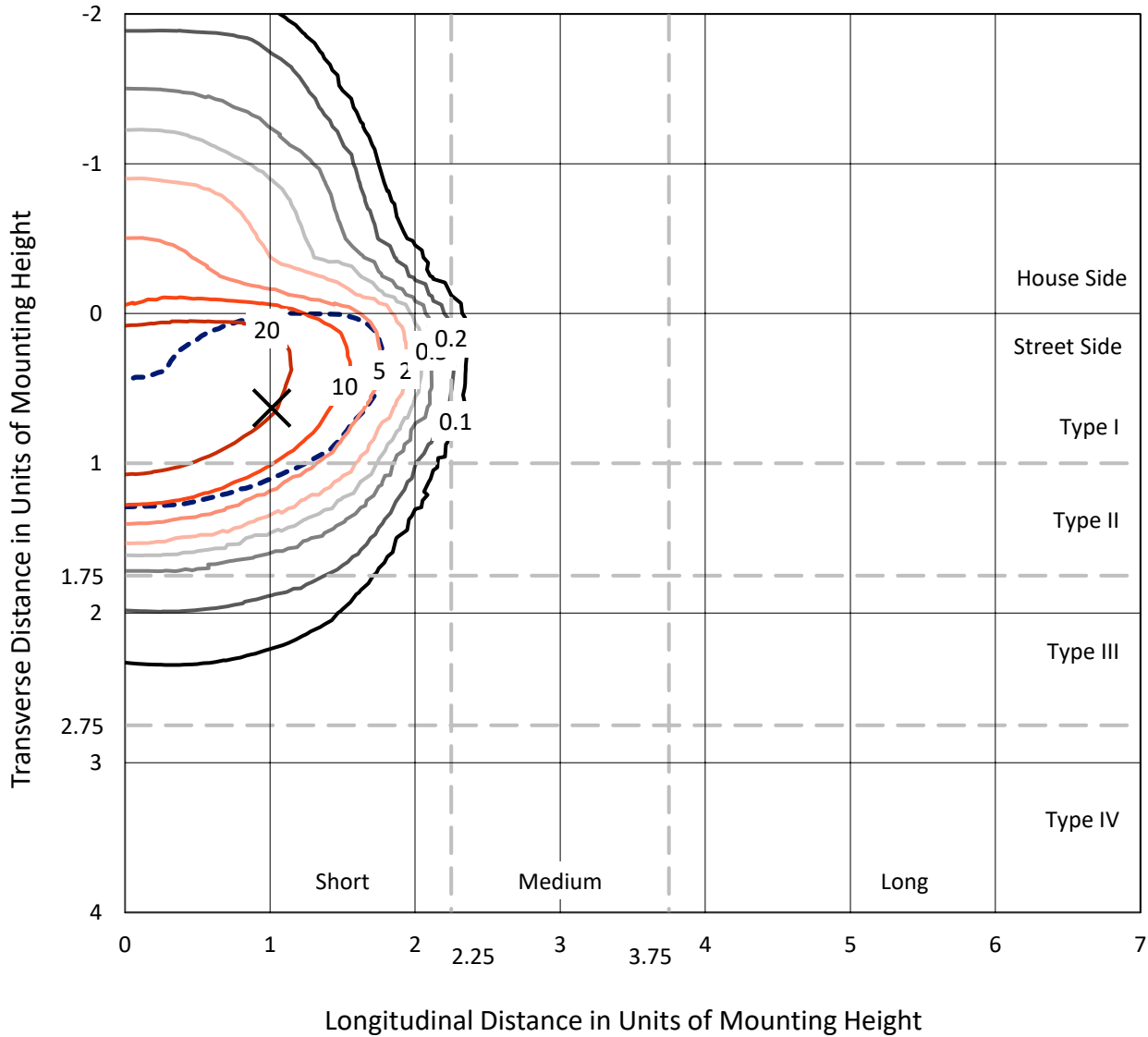
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

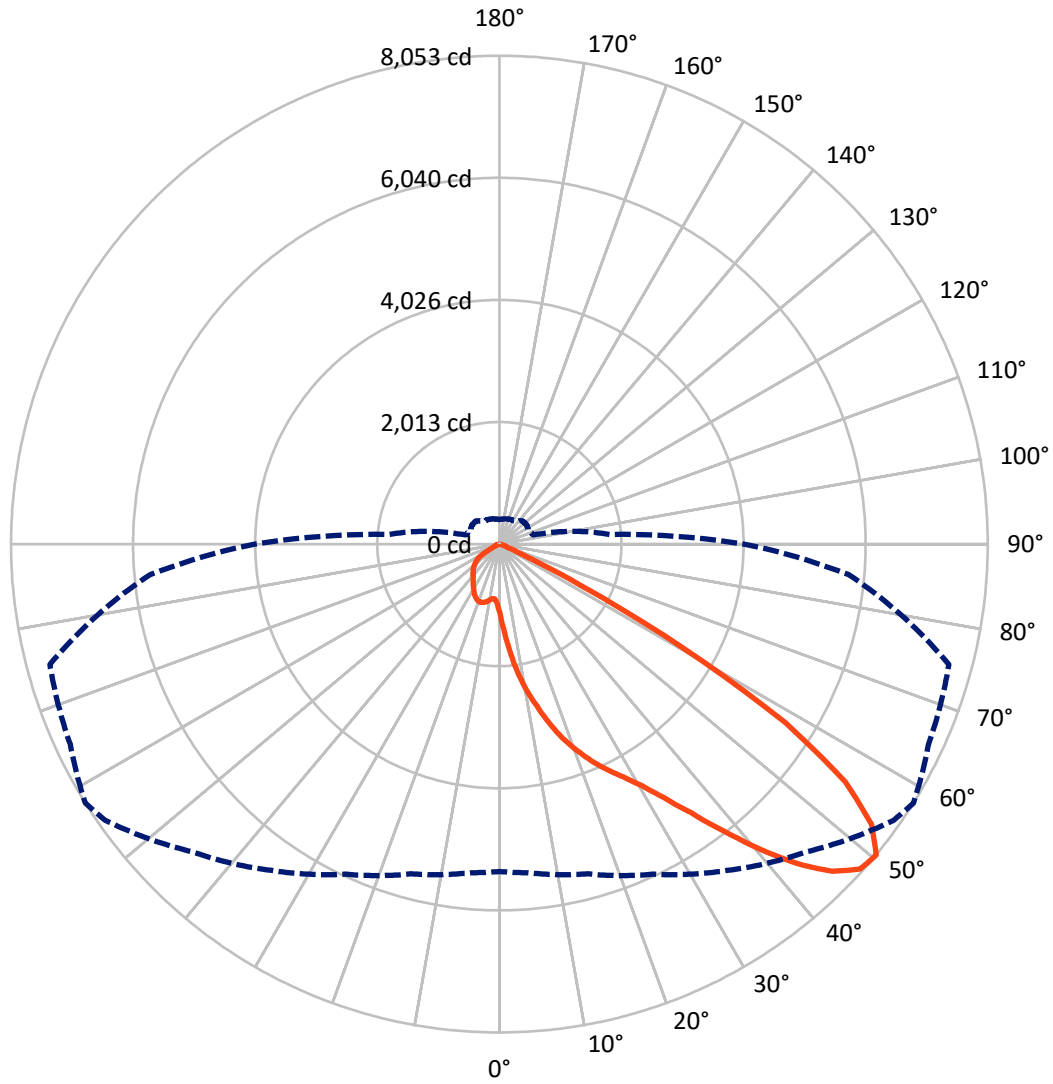
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 35.1 fc
 Type II - Short - N/A

REPORT NUMBER: P636732
CATALOG NUMBER: GWS-SA4B-735-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA4B-735-U-T2R-W-GRSBK

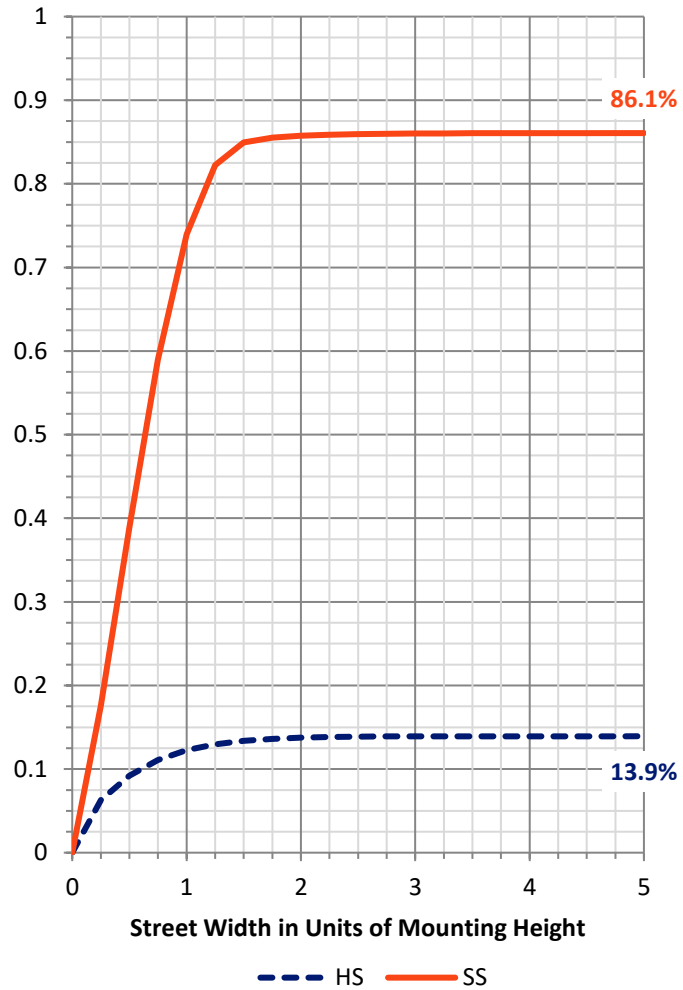
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1340.4	0.0	1340.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8229.4	0.0	8229.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	9569.8	0.0	9569.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	1.5
10°-20°	560.6	5.9
20°-30°	1134.4	11.9
30°-40°	2006.9	21.0
40°-50°	2925.6	30.6
50°-60°	2344.9	24.5
60°-70°	422.5	4.4
70°-80°	33.3	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°	9569.8	100.0
0°-180°	9569.8	100.0

Coefficient of Utilization



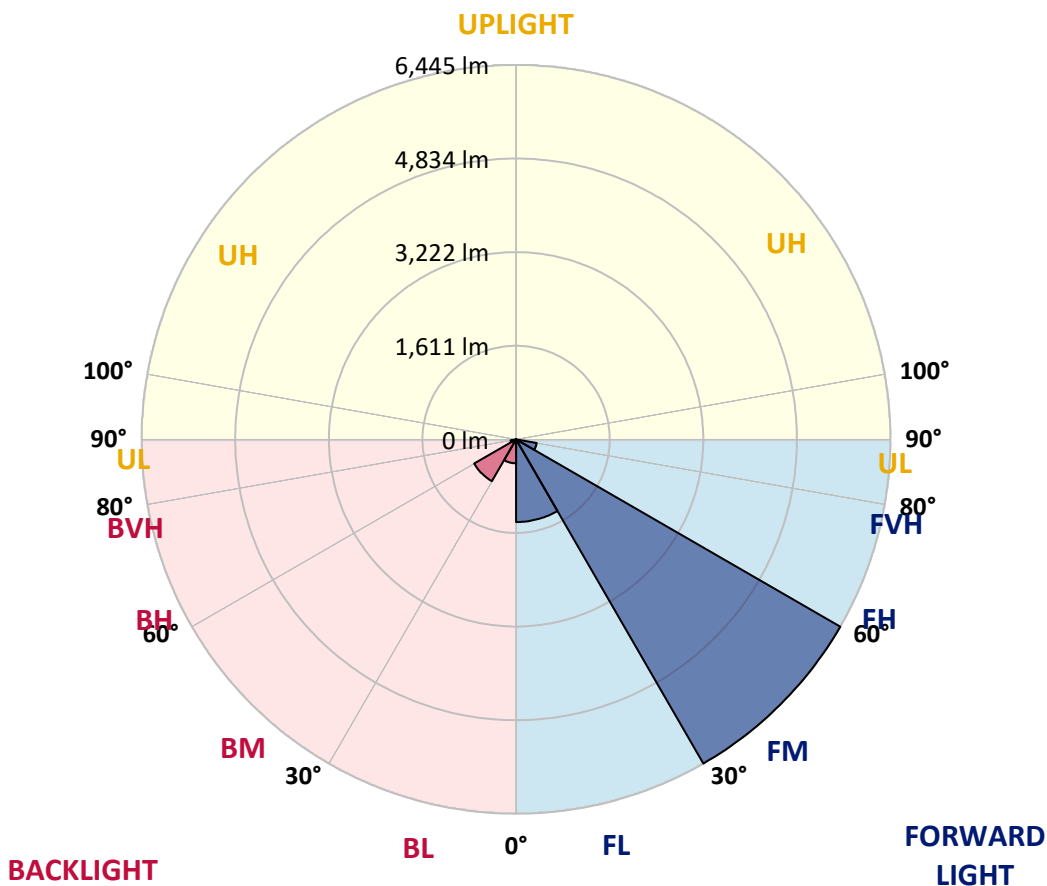
REPORT NUMBER: P636732

CATALOG NUMBER: GWS-SA4B-735-U-T2R-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1424.0	14.9			
FM (30°-60°)	6445.0	67.3			
FH (60°-80°)	360.5	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	412.7	4.3	B1/500		
BM (30°-60°)	832.4	8.7	B1/1000		
BH (60°-80°)	95.3	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





REPORT NUMBER: P636732

CATALOG NUMBER: GWS-SA4B-735-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1
2.5°	1691.6	1665.0	1649.7	1637.4	1583.1	1497.2	1440.9	1411.2	1362.1	1279.2	1207.6
5°	2207.4	2187.9	2152.1	2127.6	2058.0	1936.2	1810.3	1760.2	1648.6	1461.4	1293.5
7.5°	2549.2	2534.9	2521.6	2488.8	2423.3	2312.8	2173.6	2121.4	1949.5	1683.4	1408.1
10°	2812.2	2800.9	2785.6	2784.6	2733.4	2634.1	2498.0	2443.8	2257.5	1924.9	1543.2
12.5°	3043.5	3034.3	3031.2	3059.9	3027.1	2953.4	2806.1	2738.5	2541.0	2171.6	1692.6
15°	3202.1	3200.1	3213.4	3269.6	3288.1	3254.3	3130.5	3057.8	2830.6	2419.2	1857.4
17.5°	3274.8	3280.9	3306.5	3403.7	3485.6	3514.2	3419.1	3357.7	3118.2	2670.0	2033.4
20°	3398.6	3396.5	3411.9	3504.0	3604.3	3706.6	3678.0	3625.8	3408.8	2935.0	2228.9
22.5°	3747.6	3717.9	3685.1	3699.5	3735.3	3855.0	3908.2	3881.6	3708.7	3207.2	2430.5
25°	4283.8	4253.1	4147.7	4045.4	3977.8	4032.0	4104.7	4118.0	4006.5	3486.6	2641.3
27.5°	4852.8	4825.2	4706.4	4552.9	4359.5	4265.4	4319.6	4346.2	4299.1	3819.2	2865.4
30°	5386.0	5349.1	5219.1	5028.8	4804.7	4660.4	4599.0	4617.4	4645.0	4213.2	3128.4
32.5°	5848.5	5820.9	5665.3	5464.8	5248.8	5098.4	4955.1	4985.8	5053.4	4695.2	3465.1
35°	6240.5	6226.1	6061.4	5861.8	5633.6	5556.9	5434.1	5440.2	5507.7	5277.5	3875.5
37.5°	6581.2	6556.7	6407.3	6222.0	6040.9	6028.6	5994.9	5997.9	6032.7	5956.0	4347.2
40°	6796.2	6773.6	6667.2	6552.6	6423.6	6425.7	6600.7	6614.0	6574.1	6622.2	4845.6
42.5°	6877.0	6860.6	6803.3	6804.3	6791.0	6851.4	7179.9	7204.5	7061.2	7145.1	5271.3
45°	6736.8	6729.6	6733.7	6881.1	7040.7	7227.0	7653.7	7696.7	7494.1	7492.0	5603.9
47.5°	6284.5	6270.1	6389.9	6640.6	7010.0	7372.3	7940.3	8006.8	7797.0	7690.6	5812.7
50°	5398.2	5439.2	5628.5	6005.1	6566.9	7172.7	7937.2	8052.8	7808.3	7673.2	5777.9
52.5°	3910.3	3902.1	4316.5	4834.4	5518.0	6534.2	7515.6	7684.4	7535.0	7502.3	5700.1
55°	2127.6	2202.3	2481.7	3167.3	4020.8	5325.6	6552.6	6921.0	7094.0	7439.8	5840.3
57.5°	781.8	814.6	989.6	1474.7	2128.6	3311.6	5005.3	5561.0	6095.1	7265.9	5816.8
60°	315.2	321.3	390.9	542.4	894.4	1685.5	3002.5	3495.8	3999.3	5562.0	4463.9
62.5°	229.2	237.4	265.1	317.2	452.3	736.8	1294.6	1505.4	1645.6	2754.9	2199.2
65°	185.2	191.4	213.9	237.4	298.8	396.0	417.5	402.2	400.1	712.3	504.5
67.5°	153.5	159.6	176.0	192.4	214.9	197.5	143.3	150.4	122.8	121.8	99.3
70°	112.6	119.7	136.1	153.5	128.9	53.2	82.9	122.8	93.1	77.8	75.7
72.5°	84.9	90.1	105.4	100.3	37.9	20.5	55.3	89.0	71.6	57.3	56.3
75°	63.4	66.5	53.2	16.4	4.1	5.1	20.5	36.8	39.9	32.7	32.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.1	4.1	5.1	6.1
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°	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1
2.5°	1166.6	1123.7	1062.3	1011.1	972.2	934.3	905.7	877.0	876.0	861.7	858.6
5°	1215.8	1138.0	1025.4	944.6	895.4	865.8	845.3	835.1	829.9	824.8	822.8
7.5°	1286.4	1174.8	1019.3	933.3	892.4	872.9	858.6	852.5	849.4	845.3	844.3
10°	1373.4	1228.0	1041.8	954.8	919.0	900.6	885.2	876.0	870.9	863.7	861.7
12.5°	1477.7	1293.5	1077.6	990.6	952.8	928.2	907.7	894.4	887.3	878.0	876.0
15°	1590.3	1364.1	1117.5	1023.4	978.3	946.6	921.0	900.6	887.3	876.0	872.9
17.5°	1707.0	1435.8	1153.3	1045.9	990.6	952.8	915.9	888.3	871.9	857.6	853.5
20°	1838.0	1509.5	1176.9	1050.0	986.5	936.4	893.4	858.6	842.2	822.8	818.7
22.5°	1975.1	1578.0	1187.1	1040.8	964.0	905.7	859.6	823.8	800.3	779.8	773.7
25°	2108.1	1639.4	1182.0	1015.2	930.2	862.7	815.6	778.8	753.2	732.7	727.6
27.5°	2249.4	1690.6	1163.6	977.3	884.2	815.6	770.6	738.9	715.3	692.8	687.7
30°	2408.0	1737.7	1133.9	931.3	829.9	767.5	732.7	711.2	685.7	662.1	655.0
32.5°	2599.3	1779.6	1090.9	876.0	781.8	725.6	706.1	689.7	660.1	635.5	630.4
35°	2818.3	1814.4	1036.7	818.7	734.8	699.0	694.9	673.4	634.5	605.8	599.7
37.5°	3072.1	1848.2	972.2	762.4	700.0	686.7	687.7	650.9	603.8	569.0	564.9
40°	3345.4	1882.0	900.6	713.3	668.3	679.5	670.3	618.1	541.4	507.6	503.5
42.5°	3629.9	1918.8	827.9	667.2	641.6	651.9	638.6	552.6	497.4	480.0	477.9
45°	3886.7	1962.8	749.1	621.2	615.0	612.0	589.5	500.4	476.9	464.6	463.6
47.5°	4072.0	1955.6	665.2	577.2	586.4	576.2	507.6	475.9	456.4	440.0	436.0
50°	4038.2	1830.8	578.2	528.1	549.5	540.3	456.4	447.2	429.8	412.4	406.3
52.5°	3952.2	1660.9	502.5	475.9	509.6	488.1	421.6	412.4	397.1	374.6	367.4
55°	3998.3	1501.3	443.1	433.9	468.7	404.2	382.7	368.4	352.0	327.5	324.4
57.5°	3849.9	1225.0	356.1	362.3	414.5	344.9	335.7	313.1	285.5	269.1	267.1
60°	2664.8	658.0	223.1	230.3	299.8	289.6	300.9	280.4	246.6	231.3	228.2
62.5°	1223.9	264.0	121.8	116.7	157.6	196.5	257.9	255.8	213.9	189.3	187.3
65°	296.8	120.8	87.0	81.9	89.0	117.7	167.8	201.6	172.9	144.3	141.2
67.5°	96.2	98.2	79.8	74.7	78.8	88.0	100.3	111.5	110.5	101.3	99.3
70°	76.8	89.0	73.7	67.5	67.5	70.6	67.5	54.2	47.1	51.2	53.2
72.5°	57.3	67.5	58.3	52.2	50.1	49.1	42.0	30.7	21.5	19.4	18.4
75°	33.8	37.9	35.8	30.7	28.7	25.6	20.5	13.3	7.2	5.1	3.1
77.5°	6.1	7.2	8.2	6.1	5.1	4.1	3.1	1.0	0.0	0.0	0.0
80°	0.0	1.0	1.0	1.0	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

(END OF REPORT)