

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: P631782

Luminaire Tested: GWS-SA2B-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631782
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-SA2B-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: 4562.8 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

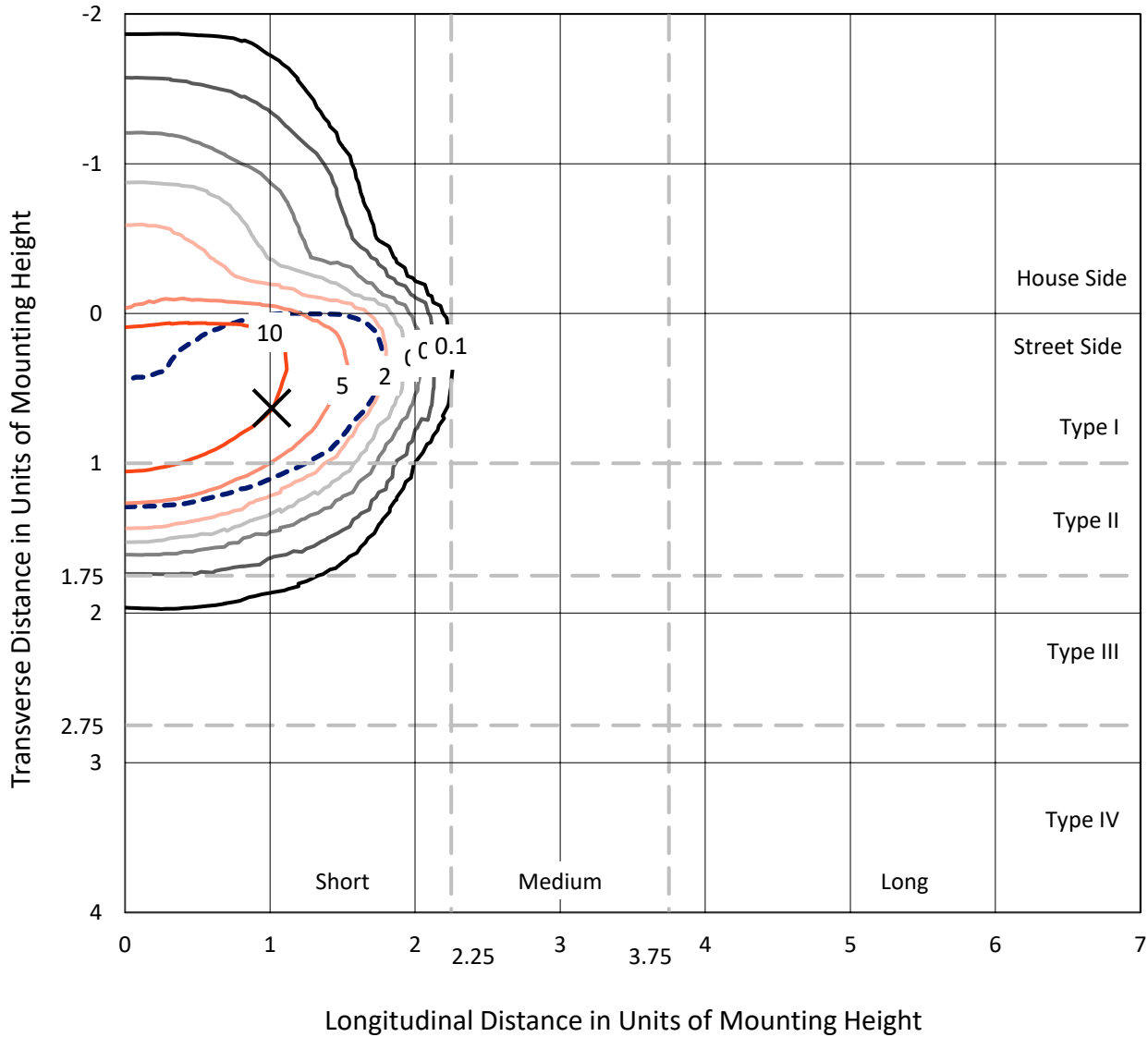
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

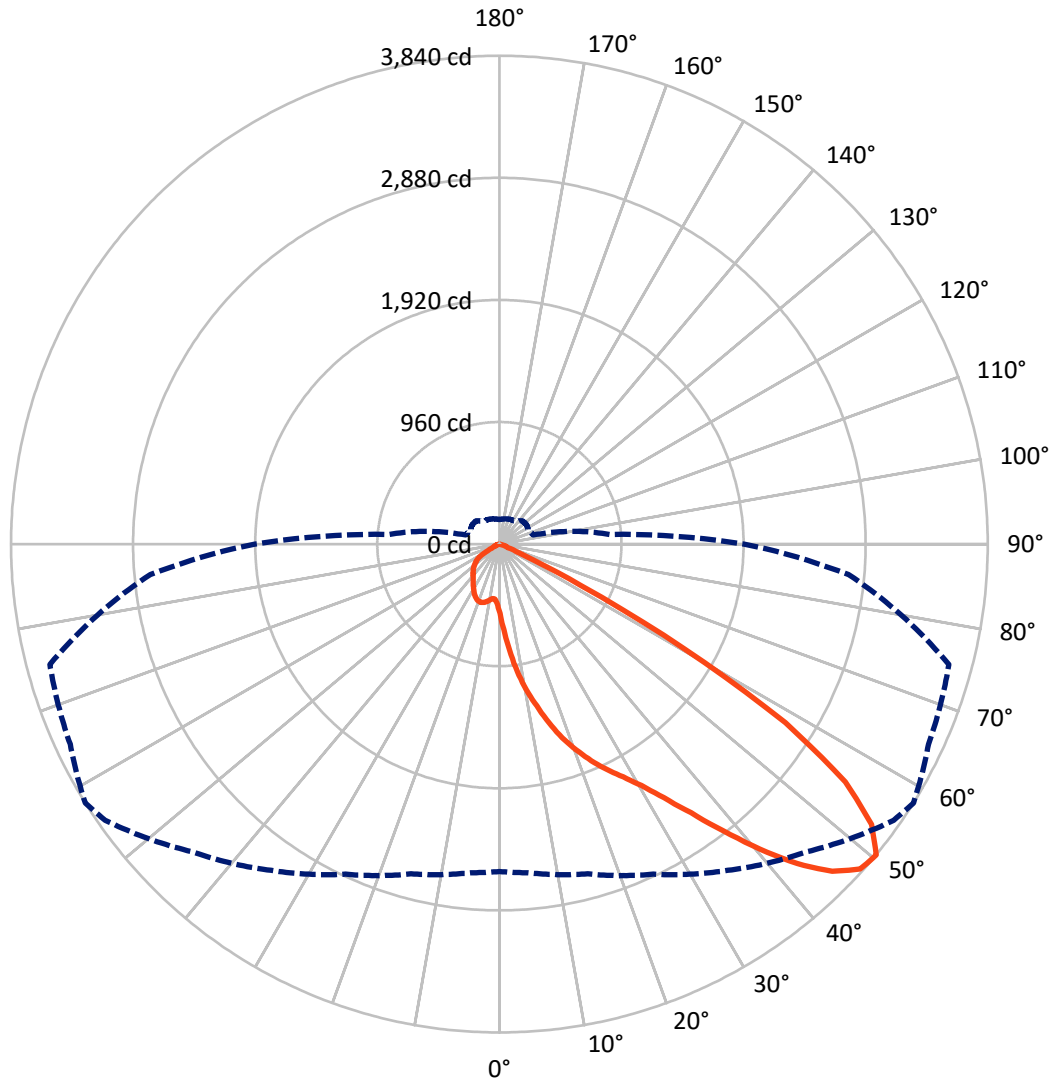
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 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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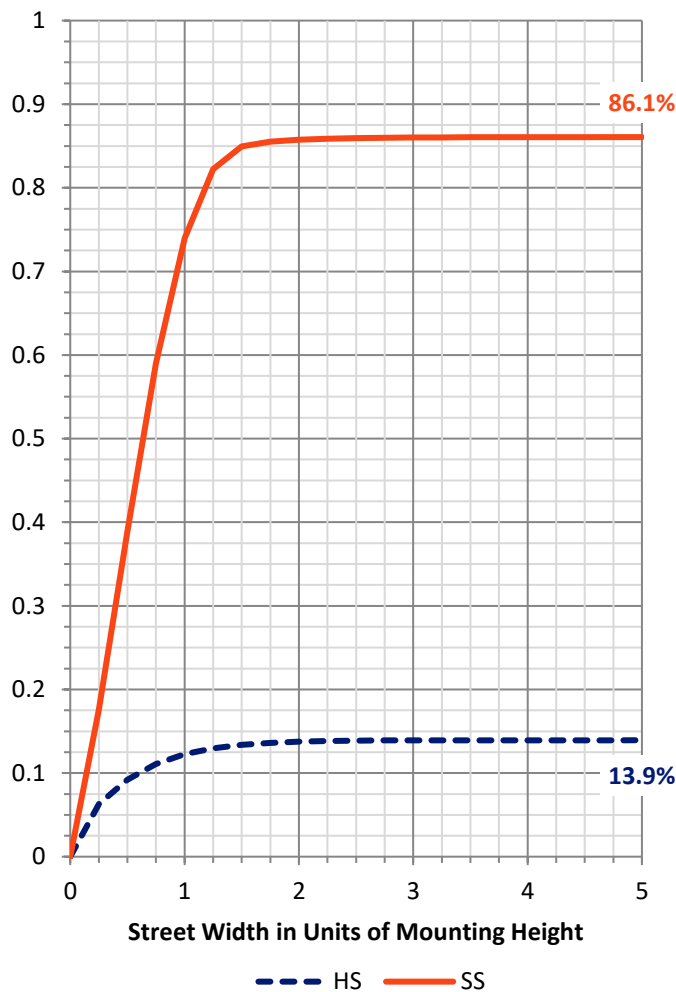
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	639.1	0.0	639.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3923.7	0.0	3923.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	4562.8	0.0	4562.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	1.5
10°-20°	267.3	5.9
20°-30°	540.9	11.9
30°-40°	956.9	21.0
40°-50°	1394.9	30.6
50°-60°	1118.0	24.5
60°-70°	201.4	4.4
70°-80°	15.9	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°	4562.8	100.0
0°-180°	4562.8	100.0

Coefficient of Utilization



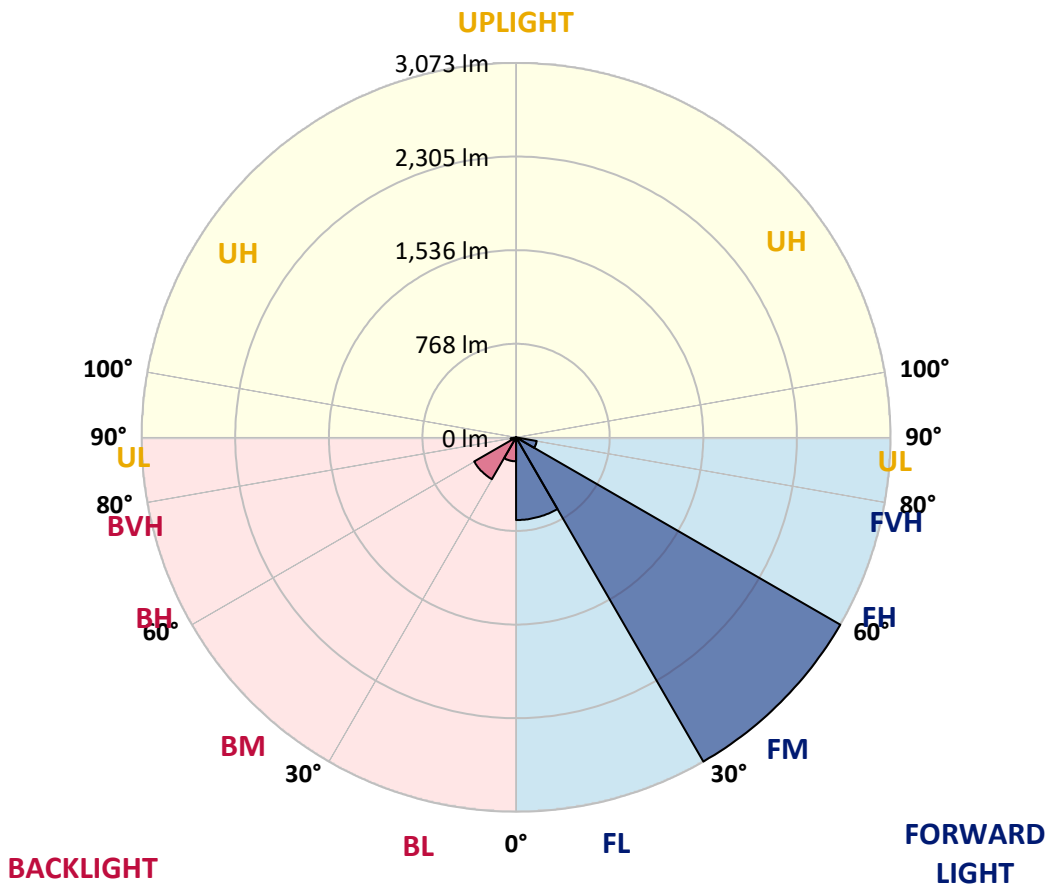
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.9	14.9			
FM (30°-60°)	3072.9	67.3			
FH (60°-80°)	171.9	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	196.8	4.3	B1/500		
BM (30°-60°)	396.9	8.7	B1/1000		
BH (60°-80°)	45.4	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°	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
2.5°	806.5	793.9	786.5	780.7	754.8	713.8	687.0	672.9	649.4	609.9	575.8
5°	1052.5	1043.2	1026.1	1014.4	981.2	923.2	863.1	839.2	786.1	696.8	616.7
7.5°	1215.4	1208.6	1202.3	1186.6	1155.4	1102.7	1036.4	1011.5	929.5	802.6	671.4
10°	1340.8	1335.5	1328.1	1327.7	1303.3	1255.9	1191.0	1165.2	1076.4	917.8	735.8
12.5°	1451.1	1446.7	1445.3	1458.9	1443.3	1408.2	1337.9	1305.7	1211.5	1035.4	807.0
15°	1526.7	1525.8	1532.1	1558.9	1567.7	1551.6	1492.6	1457.9	1349.6	1153.5	885.6
17.5°	1561.4	1564.3	1576.5	1622.9	1661.9	1675.6	1630.2	1600.9	1486.7	1273.0	969.5
20°	1620.4	1619.4	1626.8	1670.7	1718.5	1767.3	1753.6	1728.7	1625.3	1399.4	1062.7
22.5°	1786.8	1772.7	1757.0	1763.9	1780.9	1838.0	1863.4	1850.7	1768.3	1529.2	1158.8
25°	2042.5	2027.8	1977.6	1928.8	1896.6	1922.4	1957.1	1963.4	1910.2	1662.4	1259.3
27.5°	2313.8	2300.6	2244.0	2170.8	2078.6	2033.7	2059.6	2072.2	2049.8	1821.0	1366.2
30°	2568.0	2550.4	2488.4	2397.7	2290.8	2222.0	2192.8	2201.5	2214.7	2008.8	1491.6
32.5°	2788.5	2775.3	2701.2	2605.6	2502.6	2430.9	2362.6	2377.2	2409.4	2238.6	1652.1
35°	2975.4	2968.6	2890.0	2794.9	2686.1	2649.5	2590.9	2593.8	2626.0	2516.3	1847.8
37.5°	3137.9	3126.2	3054.9	2966.6	2880.3	2874.4	2858.3	2859.8	2876.4	2839.8	2072.7
40°	3240.3	3229.6	3178.9	3124.2	3062.7	3063.7	3147.2	3153.5	3134.5	3157.4	2310.4
42.5°	3278.9	3271.1	3243.8	3244.3	3237.9	3266.7	3423.3	3435.0	3366.7	3406.7	2513.3
45°	3212.0	3208.6	3210.6	3280.8	3357.0	3445.8	3649.2	3669.7	3573.1	3572.1	2671.9
47.5°	2996.4	2989.6	3046.6	3166.2	3342.3	3515.1	3785.9	3817.6	3717.5	3666.8	2771.4
50°	2573.8	2593.4	2683.6	2863.2	3131.1	3419.9	3784.4	3839.5	3722.9	3658.5	2754.9
52.5°	1864.4	1860.5	2058.1	2305.0	2630.9	3115.4	3583.4	3663.9	3592.6	3577.0	2717.8
55°	1014.4	1050.0	1183.2	1510.1	1917.1	2539.2	3124.2	3299.9	3382.3	3547.3	2784.6
57.5°	372.8	388.4	471.8	703.1	1014.9	1578.9	2386.5	2651.4	2906.1	3464.3	2773.4
60°	150.3	153.2	186.4	258.6	426.5	803.6	1431.6	1666.8	1906.8	2651.9	2128.4
62.5°	109.3	113.2	126.4	151.3	215.7	351.3	617.2	717.7	784.6	1313.5	1048.6
65°	88.3	91.2	102.0	113.2	142.5	188.8	199.1	191.8	190.8	339.6	240.5
67.5°	73.2	76.1	83.9	91.7	102.5	94.2	68.3	71.7	58.6	58.1	47.3
70°	53.7	57.1	64.9	73.2	61.5	25.4	39.5	58.6	44.4	37.1	36.1
72.5°	40.5	42.9	50.3	47.8	18.1	9.8	26.3	42.4	34.2	27.3	26.8
75°	30.3	31.7	25.4	7.8	2.0	2.4	9.8	17.6	19.0	15.6	15.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	2.0	2.4	2.9
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°	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
2.5°	556.2	535.7	506.5	482.1	463.5	445.5	431.8	418.2	417.7	410.8	409.4
5°	579.7	542.6	488.9	450.4	426.9	412.8	403.0	398.2	395.7	393.3	392.3
7.5°	613.3	560.1	486.0	445.0	425.5	416.2	409.4	406.4	405.0	403.0	402.5
10°	654.8	585.5	496.7	455.2	438.2	429.4	422.1	417.7	415.2	411.8	410.8
12.5°	704.6	616.7	513.8	472.3	454.3	442.6	432.8	426.5	423.0	418.6	417.7
15°	758.2	650.4	532.8	487.9	466.5	451.3	439.1	429.4	423.0	417.7	416.2
17.5°	813.9	684.6	549.9	498.7	472.3	454.3	436.7	423.5	415.7	408.9	406.9
20°	876.3	719.7	561.1	500.6	470.4	446.5	426.0	409.4	401.6	392.3	390.3
22.5°	941.7	752.4	566.0	496.2	459.6	431.8	409.9	392.8	381.6	371.8	368.9
25°	1005.1	781.7	563.6	484.0	443.5	411.3	388.9	371.3	359.1	349.4	346.9
27.5°	1072.5	806.1	554.8	466.0	421.6	388.9	367.4	352.3	341.1	330.3	327.9
30°	1148.1	828.5	540.6	444.0	395.7	365.9	349.4	339.1	326.9	315.7	312.3
32.5°	1239.3	848.5	520.1	417.7	372.8	345.9	336.7	328.9	314.7	303.0	300.6
35°	1343.8	865.1	494.3	390.3	350.3	333.3	331.3	321.1	302.5	288.9	285.9
37.5°	1464.8	881.2	463.5	363.5	333.7	327.4	327.9	310.3	287.9	271.3	269.3
40°	1595.0	897.3	429.4	340.1	318.6	324.0	319.6	294.7	258.1	242.0	240.1
42.5°	1730.7	914.9	394.7	318.1	305.9	310.8	304.5	263.5	237.1	228.8	227.9
45°	1853.2	935.9	357.2	296.2	293.2	291.8	281.0	238.6	227.4	221.5	221.0
47.5°	1941.5	932.4	317.2	275.2	279.6	274.7	242.0	226.9	217.6	209.8	207.9
50°	1925.4	872.9	275.7	251.8	262.0	257.6	217.6	213.2	204.9	196.6	193.7
52.5°	1884.4	791.9	239.6	226.9	243.0	232.7	201.0	196.6	189.3	178.6	175.2
55°	1906.3	715.8	211.3	206.9	223.5	192.7	182.5	175.7	167.8	156.1	154.7
57.5°	1835.6	584.1	169.8	172.7	197.6	164.4	160.0	149.3	136.1	128.3	127.3
60°	1270.6	313.7	106.4	109.8	143.0	138.1	143.5	133.7	117.6	110.3	108.8
62.5°	583.6	125.9	58.1	55.6	75.1	93.7	123.0	122.0	102.0	90.3	89.3
65°	141.5	57.6	41.5	39.0	42.4	56.1	80.0	96.1	82.5	68.8	67.3
67.5°	45.9	46.8	38.1	35.6	37.6	42.0	47.8	53.2	52.7	48.3	47.3
70°	36.6	42.4	35.1	32.2	32.2	33.7	32.2	25.9	22.4	24.4	25.4
72.5°	27.3	32.2	27.8	24.9	23.9	23.4	20.0	14.6	10.2	9.3	8.8
75°	16.1	18.1	17.1	14.6	13.7	12.2	9.8	6.3	3.4	2.4	1.5
77.5°	2.9	3.4	3.9	2.9	2.4	2.0	1.5	0.5	0.0	0.0	0.0
80°	0.0	0.5	0.5	0.5	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)