

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: P631837

Luminaire Tested: GWS-SA2B-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631837
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4626.2 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

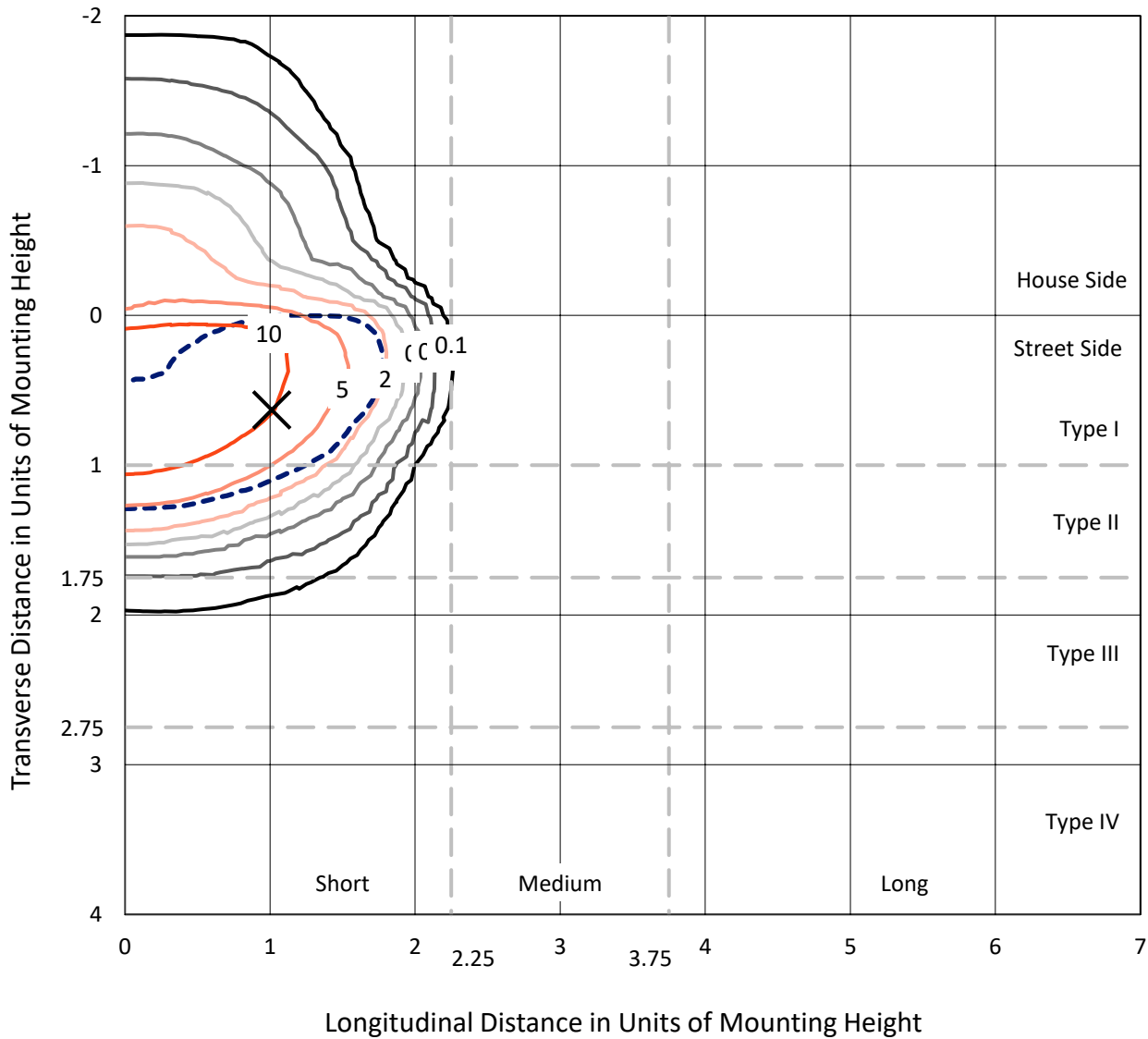
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

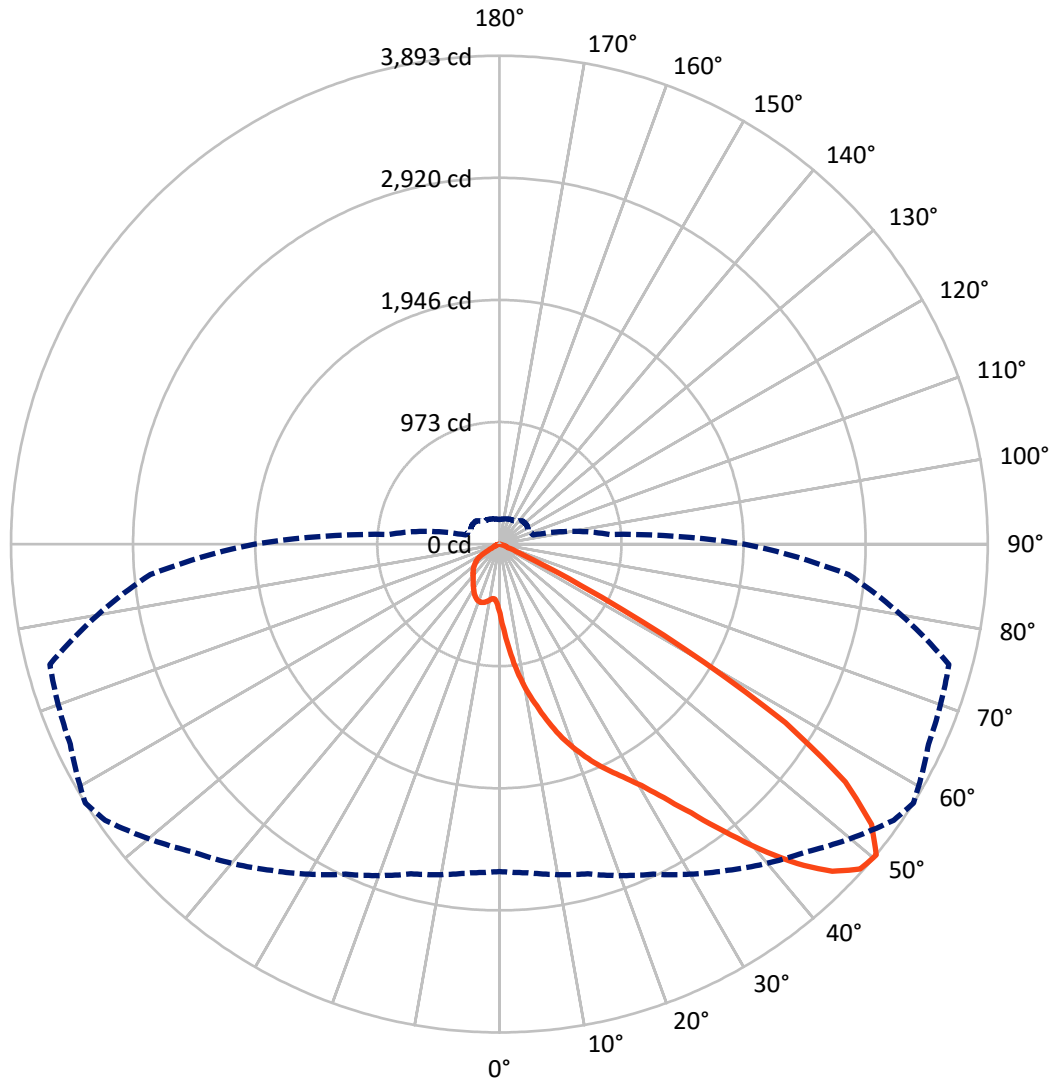
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 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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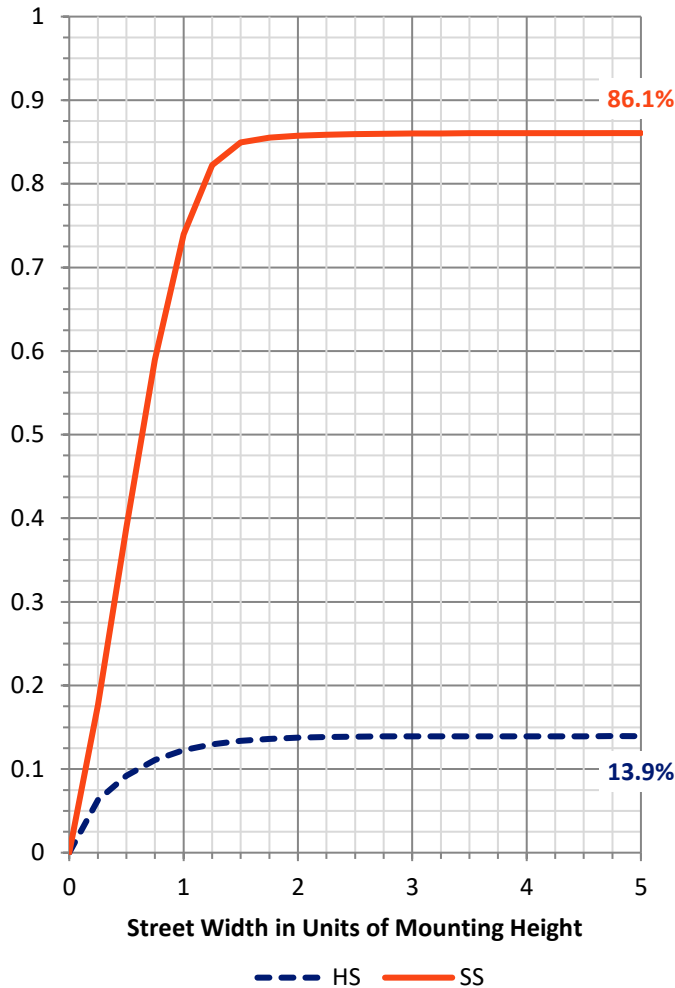
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	648.0	0.0	648.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3978.2	0.0	3978.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	4626.2	0.0	4626.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	1.5
10°-20°	271.0	5.9
20°-30°	548.4	11.9
30°-40°	970.2	21.0
40°-50°	1414.3	30.6
50°-60°	1133.6	24.5
60°-70°	204.2	4.4
70°-80°	16.1	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°	4626.2	100.0
0°-180°	4626.2	100.0

Coefficient of Utilization



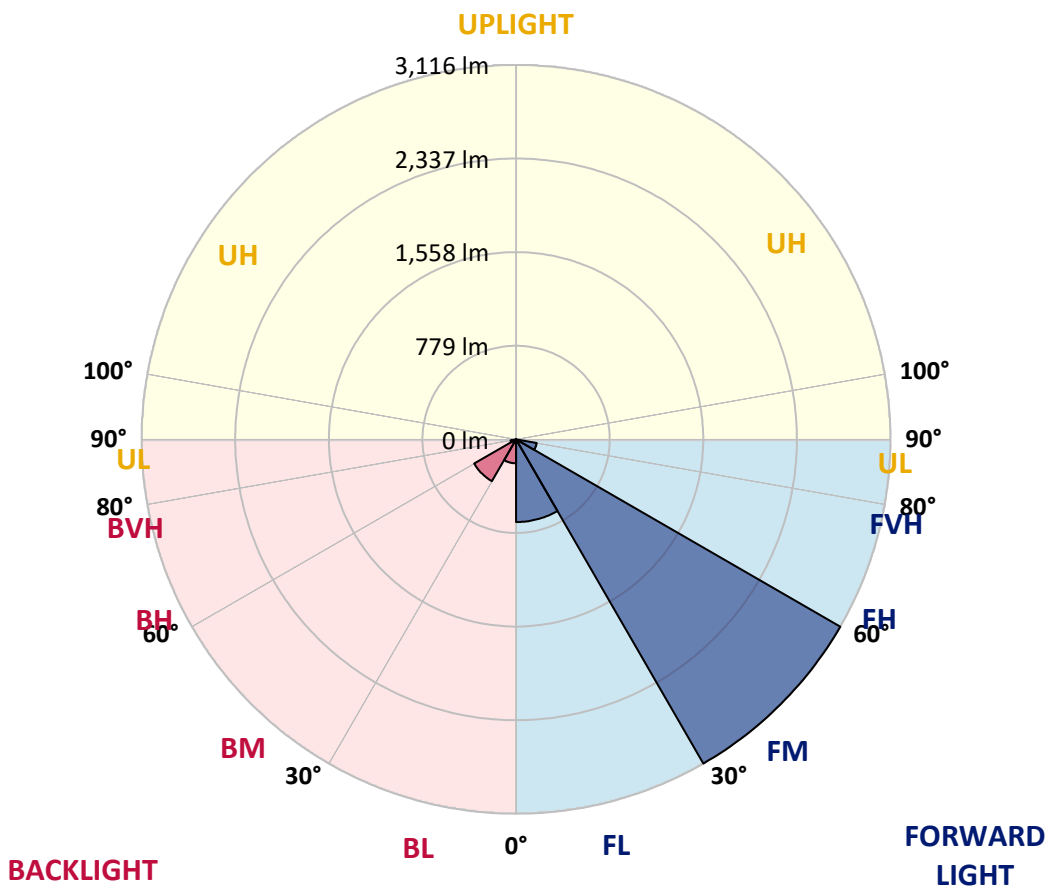
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	688.4	14.9			
FM (30°-60°)	3115.6	67.3			
FH (60°-80°)	174.3	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	199.5	4.3	B1/500		
BM (30°-60°)	402.4	8.7	B1/1000		
BH (60°-80°)	46.1	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°	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6
2.5°	817.8	804.9	797.5	791.5	765.3	723.8	696.6	682.2	658.5	618.4	583.8
5°	1067.1	1057.7	1040.4	1028.5	994.9	936.0	875.1	850.9	797.0	706.4	625.3
7.5°	1232.3	1225.4	1219.0	1203.1	1171.5	1118.0	1050.8	1025.5	942.4	813.8	680.7
10°	1359.5	1354.0	1346.6	1346.1	1321.4	1273.4	1207.6	1181.4	1091.3	930.6	746.0
12.5°	1471.3	1466.8	1465.3	1479.2	1463.4	1427.7	1356.5	1323.8	1228.4	1049.8	818.3
15°	1547.9	1547.0	1553.4	1580.6	1589.5	1573.2	1513.3	1478.2	1368.4	1169.5	897.9
17.5°	1583.1	1586.0	1598.4	1645.4	1685.0	1698.8	1652.8	1623.1	1507.4	1290.7	983.0
20°	1642.9	1641.9	1649.4	1693.9	1742.4	1791.8	1778.0	1752.8	1647.9	1418.8	1077.5
22.5°	1811.6	1797.3	1781.5	1788.4	1805.7	1863.6	1889.3	1876.4	1792.8	1550.4	1174.9
25°	2070.9	2056.0	2005.1	1955.6	1922.9	1949.2	1984.3	1990.7	1936.8	1685.5	1276.8
27.5°	2345.9	2332.6	2275.2	2201.0	2107.5	2062.0	2088.2	2101.0	2078.3	1846.3	1385.2
30°	2603.7	2585.9	2523.0	2431.0	2322.7	2252.9	2223.2	2232.1	2245.5	2036.7	1512.3
32.5°	2827.3	2813.9	2738.7	2641.8	2537.4	2464.6	2395.4	2410.2	2442.9	2269.7	1675.1
35°	3016.7	3009.8	2930.2	2833.7	2723.4	2686.3	2626.9	2629.9	2662.5	2551.2	1873.5
37.5°	3181.5	3169.6	3097.4	3007.8	2920.3	2914.3	2898.0	2899.5	2916.3	2879.2	2101.5
40°	3285.4	3274.5	3223.0	3167.6	3105.3	3106.3	3190.9	3197.3	3178.0	3201.3	2342.5
42.5°	3324.5	3316.5	3288.8	3289.3	3282.9	3312.1	3470.9	3482.8	3413.5	3454.1	2548.3
45°	3256.7	3253.2	3255.2	3326.4	3403.6	3493.6	3699.9	3720.7	3622.8	3621.8	2709.0
47.5°	3038.0	3031.1	3089.0	3210.2	3388.8	3563.9	3838.5	3870.6	3769.2	3717.7	2810.0
50°	2609.6	2629.4	2720.9	2903.0	3174.6	3467.4	3837.0	3892.9	3774.6	3709.3	2793.1
52.5°	1890.3	1886.3	2086.7	2337.0	2667.5	3158.7	3633.2	3714.8	3642.6	3626.7	2755.5
55°	1028.5	1064.6	1199.7	1531.1	1943.7	2574.5	3167.6	3345.7	3429.3	3596.5	2823.3
57.5°	378.0	393.8	478.4	712.9	1029.0	1600.9	2419.6	2688.3	2946.5	3512.4	2811.9
60°	152.4	155.3	189.0	262.2	432.4	814.8	1451.5	1689.9	1933.3	2688.8	2157.9
62.5°	110.8	114.8	128.1	153.4	218.7	356.2	625.8	727.7	795.5	1331.8	1063.1
65°	89.5	92.5	103.4	114.8	144.5	191.5	201.8	194.4	193.4	344.3	243.9
67.5°	74.2	77.2	85.1	93.0	103.9	95.5	69.3	72.7	59.4	58.9	48.0
70°	54.4	57.9	65.8	74.2	62.3	25.7	40.1	59.4	45.0	37.6	36.6
72.5°	41.1	43.5	51.0	48.5	18.3	9.9	26.7	43.0	34.6	27.7	27.2
75°	30.7	32.2	25.7	7.9	2.0	2.5	9.9	17.8	19.3	15.8	15.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	2.0	2.5	3.0
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°	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6
2.5°	564.0	543.2	513.5	488.8	470.0	451.7	437.8	424.0	423.5	416.5	415.1
5°	587.7	550.1	495.7	456.6	432.9	418.5	408.6	403.7	401.2	398.7	397.7
7.5°	621.9	567.9	492.7	451.2	431.4	422.0	415.1	412.1	410.6	408.6	408.1
10°	663.9	593.7	503.6	461.6	444.3	435.3	427.9	423.5	421.0	417.5	416.5
12.5°	714.4	625.3	520.9	478.9	460.6	448.7	438.8	432.4	428.9	424.5	423.5
15°	768.8	659.4	540.2	494.7	472.9	457.6	445.2	435.3	428.9	423.5	422.0
17.5°	825.2	694.1	557.5	505.6	478.9	460.6	442.8	429.4	421.5	414.6	412.6
20°	888.5	729.7	568.9	507.6	476.9	452.7	431.9	415.1	407.1	397.7	395.8
22.5°	954.8	762.8	573.9	503.1	466.0	437.8	415.6	398.2	386.9	377.0	374.0
25°	1019.1	792.5	571.4	490.8	449.7	417.0	394.3	376.5	364.1	354.2	351.7
27.5°	1087.4	817.3	562.5	472.4	427.4	394.3	372.5	357.2	345.8	334.9	332.4
30°	1164.1	840.0	548.1	450.2	401.2	371.0	354.2	343.8	331.5	320.1	316.6
32.5°	1256.6	860.3	527.4	423.5	378.0	350.7	341.4	333.4	319.1	307.2	304.7
35°	1362.4	877.1	501.1	395.8	355.2	337.9	335.9	325.5	306.7	292.9	289.9
37.5°	1485.1	893.4	470.0	368.6	338.4	332.0	332.4	314.6	291.9	275.1	273.1
40°	1617.2	909.8	435.3	344.8	323.0	328.5	324.0	298.8	261.7	245.4	243.4
42.5°	1754.7	927.6	400.2	322.6	310.2	315.1	308.7	267.1	240.4	232.0	231.0
45°	1878.9	948.9	362.1	300.3	297.3	295.8	285.0	241.9	230.5	224.6	224.1
47.5°	1968.5	945.4	321.6	279.0	283.5	278.5	245.4	230.0	220.6	212.7	210.7
50°	1952.1	885.0	279.5	255.3	265.7	261.2	220.6	216.2	207.8	199.4	196.4
52.5°	1910.6	802.9	242.9	230.0	246.4	236.0	203.8	199.4	191.9	181.1	177.6
55°	1932.8	725.7	214.2	209.8	226.6	195.4	185.0	178.1	170.2	158.3	156.8
57.5°	1861.1	592.2	172.2	175.1	200.4	166.7	162.3	151.4	138.0	130.1	129.1
60°	1288.2	318.1	107.8	111.3	145.0	140.0	145.4	135.6	119.2	111.8	110.3
62.5°	591.7	127.6	58.9	56.4	76.2	95.0	124.7	123.7	103.4	91.5	90.5
65°	143.5	58.4	42.1	39.6	43.0	56.9	81.1	97.5	83.6	69.8	68.3
67.5°	46.5	47.5	38.6	36.1	38.1	42.5	48.5	53.9	53.4	49.0	48.0
70°	37.1	43.0	35.6	32.7	32.7	34.1	32.7	26.2	22.8	24.7	25.7
72.5°	27.7	32.7	28.2	25.2	24.2	23.7	20.3	14.8	10.4	9.4	8.9
75°	16.3	18.3	17.3	14.8	13.9	12.4	9.9	6.4	3.5	2.5	1.5
77.5°	3.0	3.5	4.0	3.0	2.5	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)