

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: P632717

Luminaire Tested: GWS-SA2D-730-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632717
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-SA2D-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7127.4 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

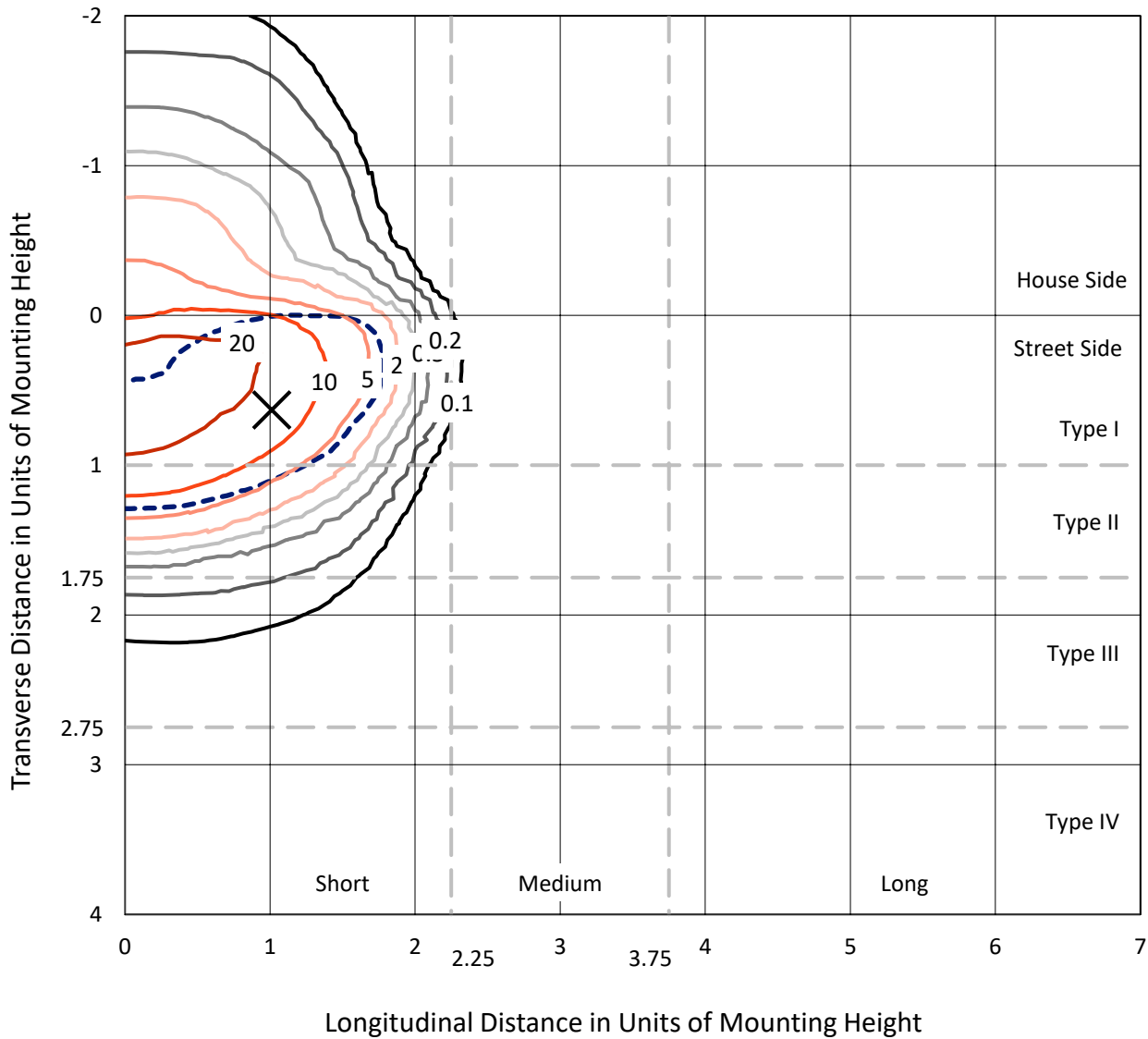
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

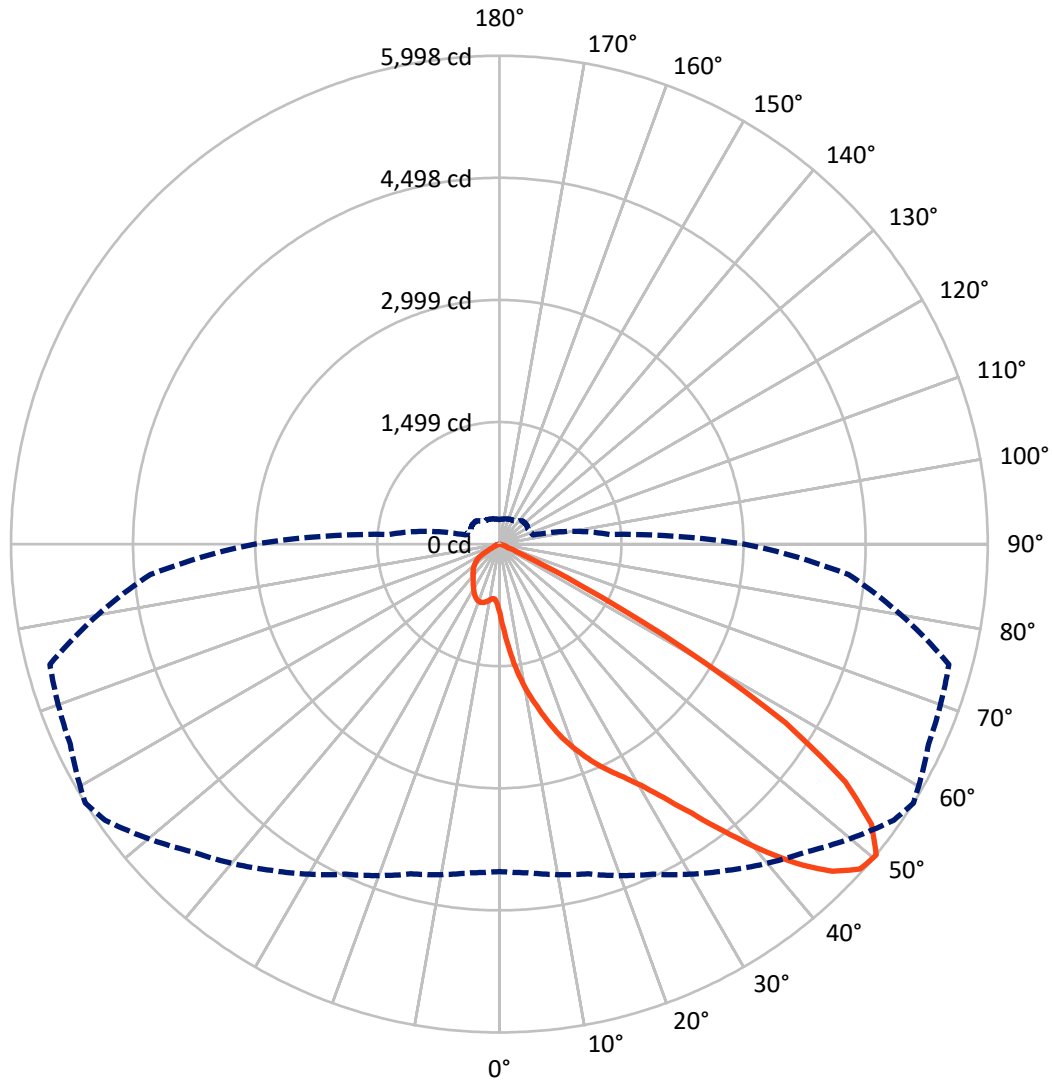
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.1 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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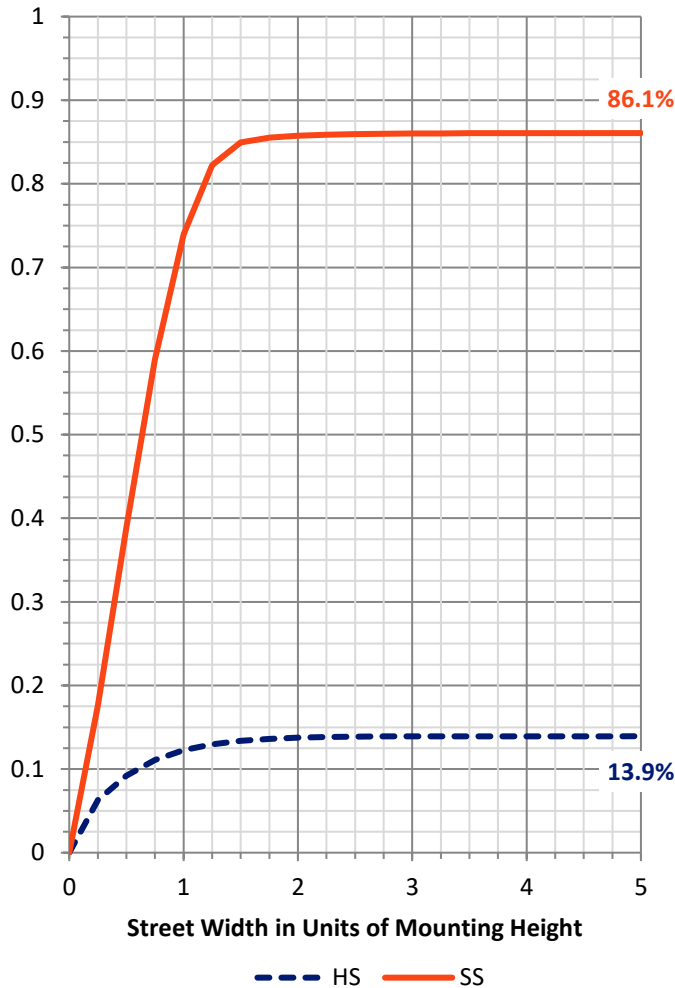
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	998.3	0.0	998.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6129.1	0.0	6129.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	7127.4	0.0	7127.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	1.5
10°-20°	417.5	5.9
20°-30°	844.9	11.9
30°-40°	1494.7	21.0
40°-50°	2178.9	30.6
50°-60°	1746.5	24.5
60°-70°	314.6	4.4
70°-80°	24.8	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°	7127.4	100.0
0°-180°	7127.4	100.0

Coefficient of Utilization



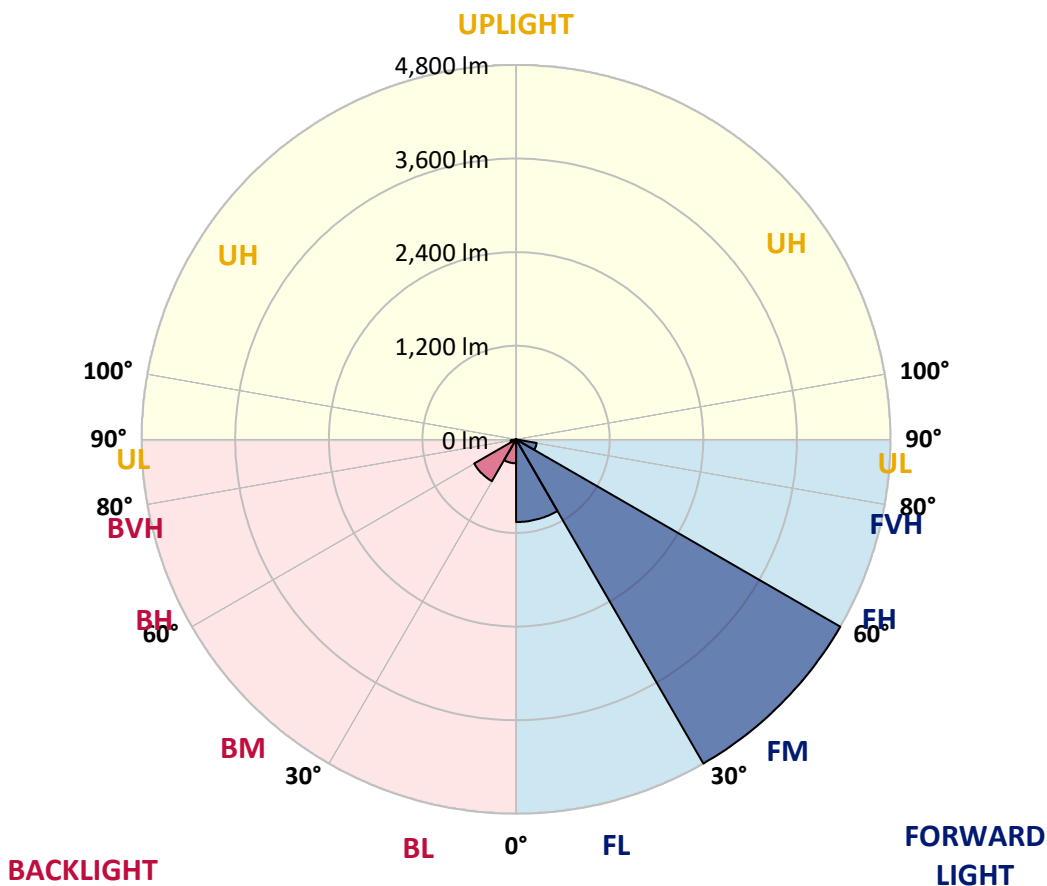
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1060.5	14.9			
FM (30°-60°)	4800.1	67.3			
FH (60°-80°)	268.5	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	307.3	4.3	B1/500		
BM (30°-60°)	620.0	8.7	B1/1000		
BH (60°-80°)	71.0	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°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	1259.9	1240.1	1228.6	1219.5	1179.1	1115.1	1073.2	1051.0	1014.5	952.7	899.4
5°	1644.0	1629.5	1602.9	1584.6	1532.7	1442.0	1348.3	1311.0	1227.9	1088.4	963.4
7.5°	1898.6	1887.9	1878.0	1853.6	1804.8	1722.5	1618.9	1580.0	1452.0	1253.8	1048.8
10°	2094.5	2086.1	2074.7	2073.9	2035.8	1961.9	1860.5	1820.1	1681.4	1433.7	1149.4
12.5°	2266.7	2259.9	2257.6	2278.9	2254.5	2199.7	2089.9	2039.6	1892.5	1617.3	1260.6
15°	2384.9	2383.3	2393.2	2435.2	2448.9	2423.7	2331.5	2277.4	2108.2	1801.8	1383.4
17.5°	2439.0	2443.6	2462.6	2535.0	2596.0	2617.3	2546.4	2500.7	2322.4	1988.5	1514.5
20°	2531.2	2529.7	2541.1	2609.7	2684.4	2760.6	2739.3	2700.4	2538.8	2185.9	1660.0
22.5°	2791.1	2769.0	2744.6	2755.3	2782.0	2871.1	2910.8	2891.0	2762.1	2388.7	1810.2
25°	3190.5	3167.6	3089.1	3012.9	2962.6	3003.0	3057.1	3067.0	2983.9	2596.7	1967.2
27.5°	3614.3	3593.7	3505.3	3390.9	3246.9	3176.8	3217.2	3237.0	3201.9	2844.5	2134.1
30°	4011.4	3983.9	3887.1	3745.4	3578.4	3471.0	3425.2	3439.0	3459.5	3137.9	2330.0
32.5°	4355.9	4335.3	4219.4	4070.0	3909.2	3797.2	3690.5	3713.3	3763.6	3496.9	2580.7
35°	4647.8	4637.1	4514.4	4365.8	4195.8	4138.6	4047.2	4051.8	4102.1	3930.6	2886.4
37.5°	4901.6	4883.3	4772.0	4634.1	4499.2	4490.0	4464.9	4467.1	4493.1	4435.9	3237.7
40°	5061.6	5044.9	4965.6	4880.2	4784.2	4785.7	4916.1	4926.0	4896.2	4932.1	3608.9
42.5°	5121.9	5109.7	5067.0	5067.7	5057.8	5102.8	5347.5	5365.8	5259.0	5321.5	3926.0
45°	5017.4	5012.1	5015.1	5124.9	5243.8	5382.5	5700.3	5732.4	5581.4	5579.9	4173.7
47.5°	4680.6	4669.9	4759.1	4945.8	5220.9	5490.7	5913.8	5963.3	5807.1	5727.8	4329.2
50°	4020.5	4051.0	4192.0	4472.5	4890.9	5342.1	5911.5	5997.6	5815.4	5714.8	4303.3
52.5°	2912.3	2906.2	3214.9	3600.5	4109.7	4866.5	5597.5	5723.2	5611.9	5587.5	4245.3
55°	1584.6	1640.2	1848.3	2358.9	2994.6	3966.4	4880.2	5154.6	5283.4	5541.1	4349.8
57.5°	582.3	606.7	737.0	1098.3	1585.3	2466.4	3727.8	4141.7	4539.5	5411.5	4332.2
60°	234.8	239.3	291.2	404.0	666.1	1255.3	2236.2	2603.6	2978.6	4142.5	3324.6
62.5°	170.7	176.8	197.4	236.3	336.9	548.8	964.2	1121.2	1225.6	2051.8	1637.9
65°	138.0	142.5	159.3	176.8	222.6	295.0	311.0	299.5	298.0	530.5	375.8
67.5°	114.3	118.9	131.1	143.3	160.1	147.1	106.7	112.0	91.5	90.7	73.9
70°	83.8	89.2	101.4	114.3	96.0	39.6	61.7	91.5	69.4	57.9	56.4
72.5°	63.3	67.1	78.5	74.7	28.2	15.2	41.2	66.3	53.4	42.7	41.9
75°	47.3	49.5	39.6	12.2	3.0	3.8	15.2	27.4	29.7	24.4	24.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.3	3.0	3.8	4.6
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°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	868.9	836.9	791.1	753.0	724.1	695.9	674.5	653.2	652.4	641.8	639.5
5°	905.5	847.5	763.7	703.5	666.9	644.8	629.6	621.9	618.1	614.3	612.8
7.5°	958.1	875.0	759.1	695.1	664.6	650.1	639.5	634.9	632.6	629.6	628.8
10°	1022.8	914.6	775.9	711.1	684.4	670.7	659.3	652.4	648.6	643.3	641.8
12.5°	1100.6	963.4	802.6	737.8	709.6	691.3	676.1	666.1	660.8	654.0	652.4
15°	1184.4	1016.0	832.3	762.2	728.6	705.0	686.0	670.7	660.8	652.4	650.1
17.5°	1271.3	1069.3	859.0	778.9	737.8	709.6	682.2	661.6	649.4	638.7	635.7
20°	1368.9	1124.2	876.5	782.0	734.7	697.4	665.4	639.5	627.3	612.8	609.7
22.5°	1471.0	1175.3	884.1	775.1	718.0	674.5	640.2	613.6	596.0	580.8	576.2
25°	1570.1	1221.0	880.3	756.1	692.8	642.5	607.5	580.0	561.0	545.7	541.9
27.5°	1675.3	1259.1	866.6	727.9	658.5	607.5	573.9	550.3	532.8	516.0	512.2
30°	1793.4	1294.2	844.5	693.6	618.1	571.6	545.7	529.7	510.7	493.1	487.8
32.5°	1935.9	1325.4	812.5	652.4	582.3	540.4	525.9	513.7	491.6	473.3	469.5
35°	2099.0	1351.3	772.1	609.7	547.2	520.6	517.5	501.5	472.6	451.2	446.6
37.5°	2288.1	1376.5	724.1	567.8	521.3	511.4	512.2	484.7	449.7	423.8	420.7
40°	2491.6	1401.7	670.7	531.2	497.7	506.1	499.2	460.4	403.2	378.0	375.0
42.5°	2703.5	1429.1	616.6	496.9	477.9	485.5	475.6	411.6	370.4	357.5	355.9
45°	2894.8	1461.9	557.9	462.6	458.1	455.8	439.0	372.7	355.2	346.0	345.3
47.5°	3032.7	1456.5	495.4	429.9	436.7	429.1	378.0	354.4	339.9	327.7	324.7
50°	3007.6	1363.5	430.6	393.3	409.3	402.4	339.9	333.1	320.1	307.2	302.6
52.5°	2943.5	1237.0	374.2	354.4	379.6	363.6	314.0	307.2	295.7	279.0	273.6
55°	2977.8	1118.1	330.0	323.2	349.1	301.1	285.1	274.4	262.2	243.9	241.6
57.5°	2867.3	912.3	265.2	269.8	308.7	256.9	250.0	233.2	212.6	200.5	198.9
60°	1984.7	490.1	166.2	171.5	223.3	215.7	224.1	208.8	183.7	172.3	170.0
62.5°	911.6	196.6	90.7	86.9	117.4	146.3	192.1	190.5	159.3	141.0	139.5
65°	221.0	89.9	64.8	61.0	66.3	87.7	125.0	150.1	128.8	107.5	105.2
67.5°	71.6	73.2	59.5	55.6	58.7	65.5	74.7	83.1	82.3	75.5	73.9
70°	57.2	66.3	54.9	50.3	50.3	52.6	50.3	40.4	35.1	38.1	39.6
72.5°	42.7	50.3	43.4	38.9	37.3	36.6	31.2	22.9	16.0	14.5	13.7
75°	25.2	28.2	26.7	22.9	21.3	19.1	15.2	9.9	5.3	3.8	2.3
77.5°	4.6	5.3	6.1	4.6	3.8	3.0	2.3	0.8	0.0	0.0	0.0
80°	0.0	0.8	0.8	0.8	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)