

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: P630580

Luminaire Tested: GWS-SA1D-830-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-830-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

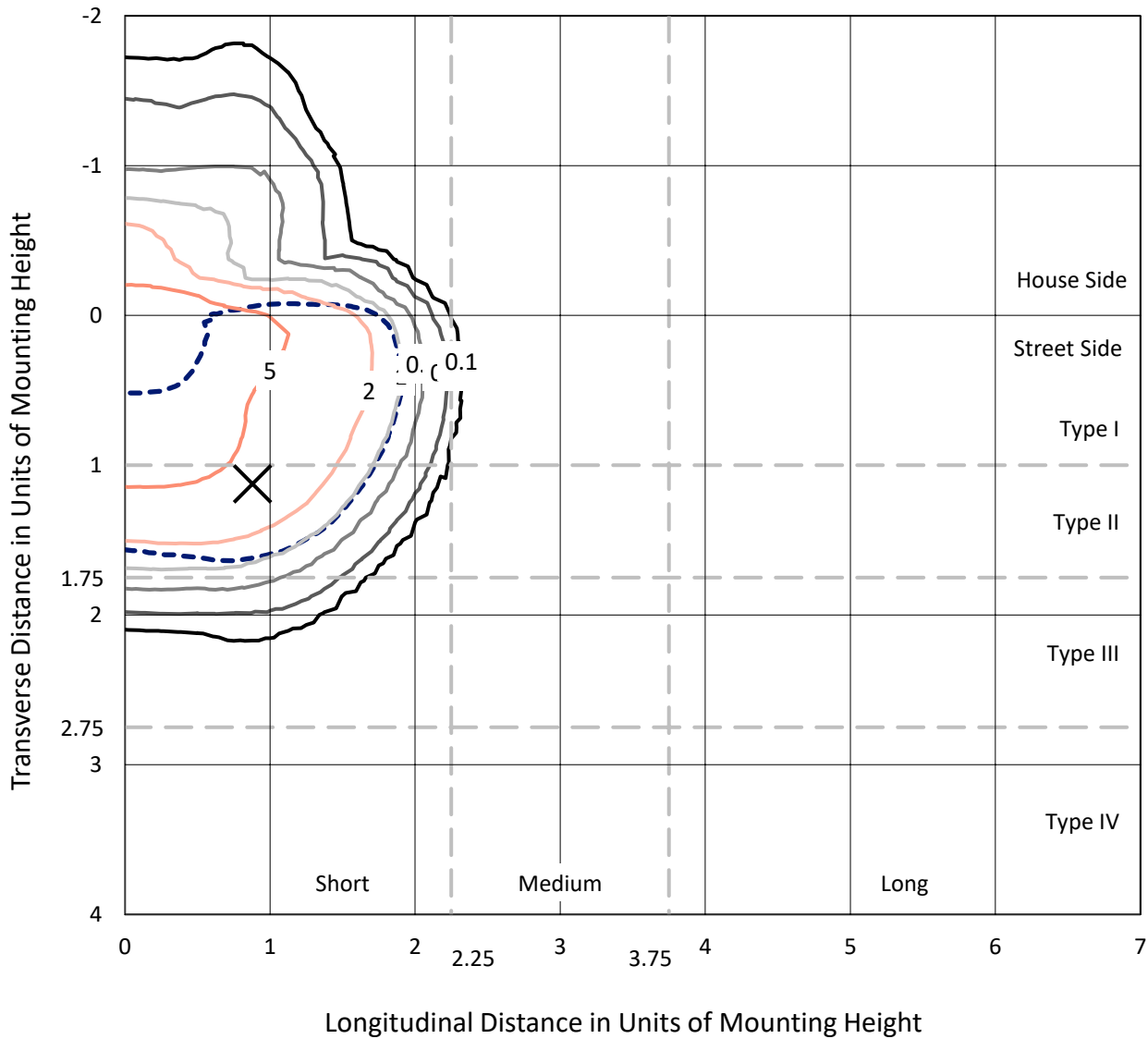
Lumens per Lamp: N/A  
Luminaire Lumens: 3021.2 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

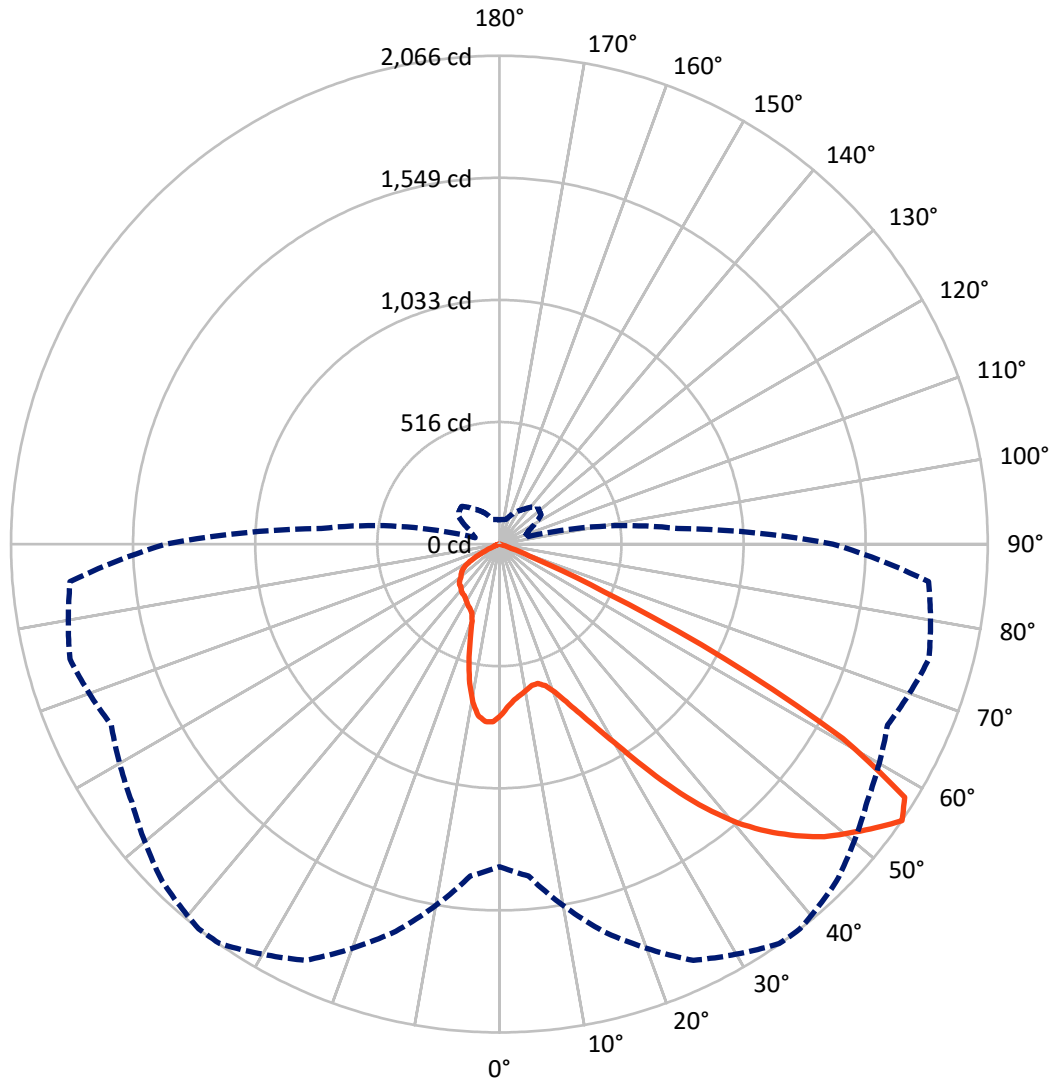
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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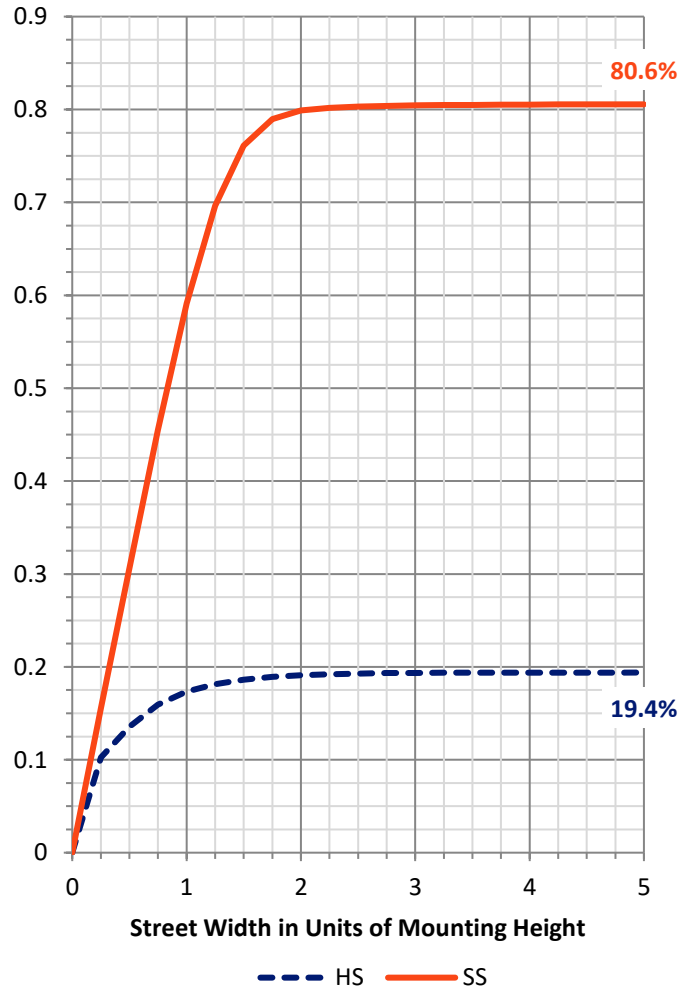
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	588.6	0.0	588.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	2432.6	0.0	2432.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	3021.2	0.0	3021.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.0	2.2
10°-20°	180.3	6.0
20°-30°	309.5	10.2
30°-40°	513.3	17.0
40°-50°	754.6	25.0
50°-60°	881.7	29.2
60°-70°	298.9	9.9
70°-80°	15.3	0.5
80°-90°	0.6	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°	3021.2	100.0
0°-180°	3021.2	100.0

**Coefficient of Utilization**



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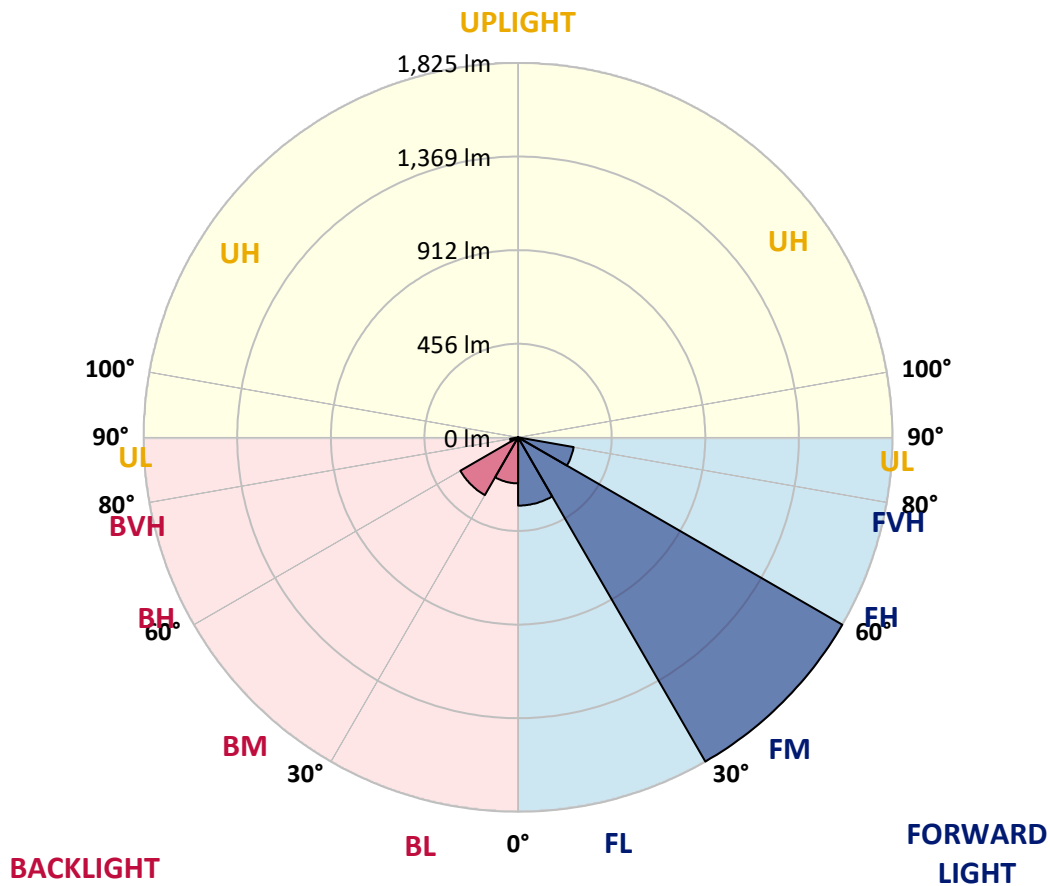
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.6	11.0			
FM (30°-60°)	1824.7	60.4			
FH (60°-80°)	275.0	9.1			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	224.3	7.4	B1/500		
BM (30°-60°)	324.9	10.8	B1/1000		
BH (60°-80°)	39.2	1.3	B0/110		G0/110
BVH (80°-90°)	0.3	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°	38°	45°	55°	65°	75°	85°
0°	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5
2.5°	674.8	673.4	676.2	681.7	686.9	688.6	693.8	701.0	705.5	716.2	724.9
5°	644.4	643.7	646.5	651.3	658.2	660.6	668.6	680.6	692.7	711.4	729.7
7.5°	616.8	616.4	620.6	631.3	641.3	644.4	654.1	668.9	685.1	713.8	740.7
10°	580.5	580.8	588.8	604.0	622.3	628.5	644.0	665.5	686.5	723.5	760.8
12.5°	568.8	569.5	573.6	585.3	605.4	613.3	635.1	667.5	694.5	737.3	786.7
15°	597.4	597.4	594.0	595.4	604.3	611.6	634.4	674.4	707.9	753.9	812.2
17.5°	653.0	651.0	642.3	630.6	627.5	629.9	648.2	689.3	726.9	773.2	841.2
20°	728.3	729.0	712.1	687.6	667.9	667.5	678.6	715.5	754.2	796.3	872.7
22.5°	819.5	816.7	794.3	760.8	726.6	723.8	728.3	755.6	793.6	832.9	911.3
25°	925.1	923.8	892.0	847.1	801.9	795.3	795.3	822.2	849.9	885.1	957.6
27.5°	1035.7	1035.7	1004.9	953.1	893.0	881.3	879.6	911.3	929.6	936.5	996.6
30°	1149.3	1147.9	1117.5	1064.3	1000.1	988.0	983.2	1006.6	1019.8	999.0	1045.3
32.5°	1264.6	1267.0	1236.3	1186.9	1129.6	1121.6	1106.8	1106.8	1117.5	1088.5	1122.0
35°	1388.6	1387.9	1363.7	1330.2	1281.2	1272.2	1247.7	1209.4	1225.6	1212.8	1228.0
37.5°	1498.1	1503.2	1491.5	1466.6	1426.9	1417.9	1377.5	1308.1	1320.6	1340.6	1354.0
40°	1609.2	1613.4	1625.1	1617.2	1567.1	1550.5	1478.7	1364.8	1378.6	1447.3	1486.0
42.5°	1718.4	1720.4	1744.3	1757.4	1690.4	1661.4	1555.4	1399.3	1413.8	1530.9	1598.5
45°	1787.8	1792.3	1831.6	1871.7	1799.2	1759.5	1622.0	1443.5	1449.7	1588.9	1681.8
47.5°	1785.0	1795.4	1869.3	1942.1	1892.8	1849.9	1702.1	1514.3	1503.9	1643.4	1736.7
50°	1729.4	1741.9	1847.9	1963.6	1960.1	1920.4	1791.2	1616.8	1584.4	1691.8	1743.6
52.5°	1614.1	1650.0	1810.2	1966.3	2014.3	1994.3	1901.4	1755.0	1693.2	1761.2	1754.6
55°	1364.8	1409.0	1695.9	1942.8	2063.4	2065.8	2017.1	1899.0	1811.3	1880.7	1822.7
57.5°	1036.0	1071.2	1305.4	1729.4	1982.2	2021.9	2062.0	1975.0	1884.1	1962.2	1838.5
60°	624.4	665.1	817.4	1269.1	1601.0	1668.6	1825.8	1808.8	1699.4	1732.9	1507.7
62.5°	253.1	274.5	377.4	699.3	1007.7	1070.9	1221.4	1247.0	1220.1	1185.9	914.4
65°	92.5	101.2	151.3	289.0	463.4	486.6	566.0	611.2	648.5	552.2	340.2
67.5°	57.3	62.9	98.4	148.5	168.5	156.8	159.5	190.3	181.6	112.2	60.8
70°	42.5	47.0	77.0	102.9	68.0	52.5	35.6	38.0	34.2	30.0	29.7
72.5°	29.4	33.5	57.7	60.8	26.2	18.6	13.1	18.3	20.7	20.4	21.1
75°	19.3	22.4	36.3	23.8	6.6	5.2	4.5	9.7	12.4	12.4	12.8
77.5°	11.4	13.1	12.8	4.8	1.4	1.4	1.0	1.7	2.8	3.1	3.8
80°	1.4	1.0	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0
82.5°	0.3	0.3	0.3	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0
85°	0.0	0.0	0.3	0.3	0.7	0.7	0.7	0.7	0.7	1.0	1.0
87.5°	0.0	0.0	0.3	0.3	0.7	0.7	0.7	0.7	0.7	1.0	1.0
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°	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5
2.5°	731.4	729.0	739.0	746.3	752.1	754.9	751.1	750.8	750.8	743.2	741.1
5°	740.0	741.1	755.2	761.5	762.5	759.0	750.4	744.5	741.1	733.1	728.7
7.5°	756.6	760.1	773.5	772.5	763.2	747.3	724.5	706.9	695.5	683.1	675.5
10°	780.5	787.0	795.3	780.8	751.1	710.7	663.7	630.2	610.2	596.0	587.4
12.5°	809.5	816.0	813.3	779.1	717.3	645.1	584.6	536.3	513.2	500.4	491.4
15°	838.8	843.0	825.0	758.3	657.5	560.5	493.1	445.1	416.8	406.5	398.9
17.5°	868.9	867.8	827.1	717.6	577.7	465.2	398.9	366.1	358.1	356.4	355.7
20°	900.3	891.0	818.8	659.2	481.7	370.9	333.2	335.3	349.8	356.7	358.1
22.5°	936.2	912.7	798.1	580.2	383.7	309.1	312.9	333.2	352.9	362.3	363.6
25°	974.5	932.7	763.5	478.6	302.5	284.2	306.7	330.1	351.2	362.6	364.0
27.5°	999.7	937.6	706.9	376.4	259.7	274.5	298.4	320.8	342.6	355.0	356.7
30°	1027.0	935.5	629.9	290.1	245.2	266.3	287.0	307.3	327.4	341.2	342.6
32.5°	1067.1	934.1	536.0	235.5	239.3	259.7	274.9	291.8	305.6	313.6	312.5
35°	1119.6	932.4	426.5	212.4	235.9	254.5	266.6	274.5	259.3	254.5	255.5
37.5°	1186.9	936.5	334.3	202.7	234.8	253.1	263.5	240.7	217.2	208.2	206.9
40°	1261.5	947.2	254.9	198.9	238.3	256.6	251.7	214.1	185.1	167.5	163.7
42.5°	1336.4	959.0	201.7	197.5	244.1	266.3	232.4	194.8	151.3	141.2	139.9
45°	1392.0	956.9	174.4	195.1	249.3	271.8	227.2	167.1	135.0	130.5	130.9
47.5°	1420.0	934.1	159.5	189.6	251.4	266.3	214.5	155.7	124.0	128.8	133.0
50°	1405.2	875.1	145.7	178.9	246.9	259.0	194.1	147.1	118.4	138.5	147.8
52.5°	1387.2	802.6	130.5	162.3	236.2	249.0	186.1	144.7	115.0	133.6	140.6
55°	1411.0	756.6	105.7	136.8	215.1	225.5	179.9	144.3	107.1	103.9	102.9
57.5°	1377.5	665.1	75.6	98.4	165.1	178.5	175.4	141.9	95.0	94.6	96.0
60°	1064.7	405.8	51.8	62.5	101.2	114.0	159.2	135.7	81.8	75.3	75.6
62.5°	605.0	172.7	35.6	38.7	51.8	61.5	121.6	123.3	75.6	71.8	75.6
65°	210.7	61.8	27.6	25.9	28.7	32.8	69.8	95.3	68.7	62.2	62.9
67.5°	43.5	30.7	24.5	21.4	21.4	21.4	35.6	59.4	56.6	49.4	50.1
70°	27.6	26.2	21.4	18.3	17.6	16.2	20.4	32.8	39.0	35.9	36.3
72.5°	20.4	20.0	16.9	14.8	13.1	11.7	12.8	16.2	20.0	20.7	21.1
75°	12.4	12.8	11.1	9.3	8.3	7.3	7.6	7.6	7.6	6.9	7.6
77.5°	3.8	4.1	3.5	2.8	2.4	2.4	2.4	2.1	1.7	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.3	0.3	0.0	0.0
82.5°	1.0	1.0	1.0	1.0	0.7	0.7	0.3	0.3	0.0	0.0	0.0
85°	1.0	1.0	1.0	1.0	0.7	0.7	0.3	0.3	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	0.7	0.7	0.3	0.3	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)