

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: P631786

Luminaire Tested: GWS-SA2B-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-735-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

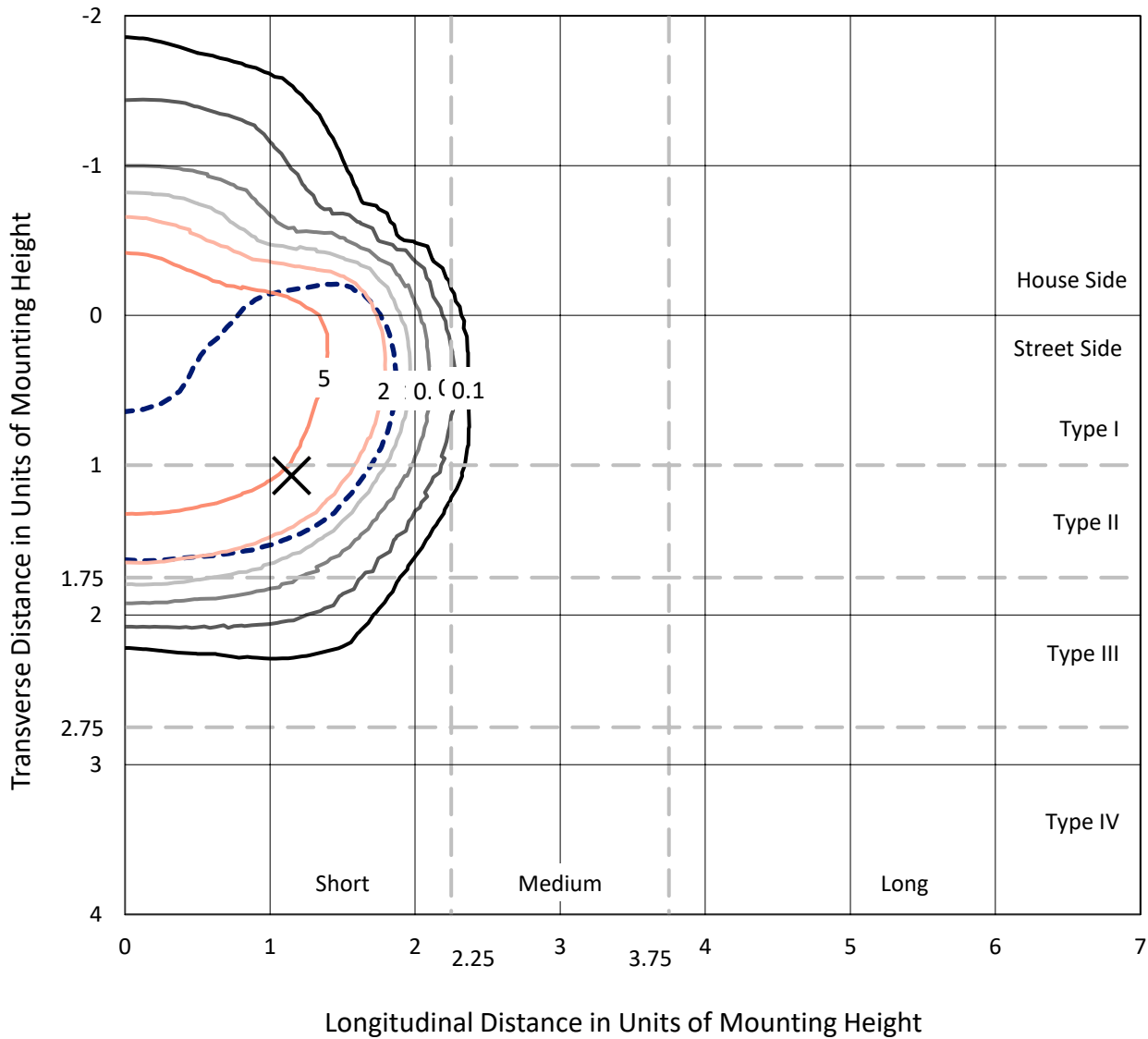
Lumens per Lamp: N/A  
Luminaire Lumens: 4203.2 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

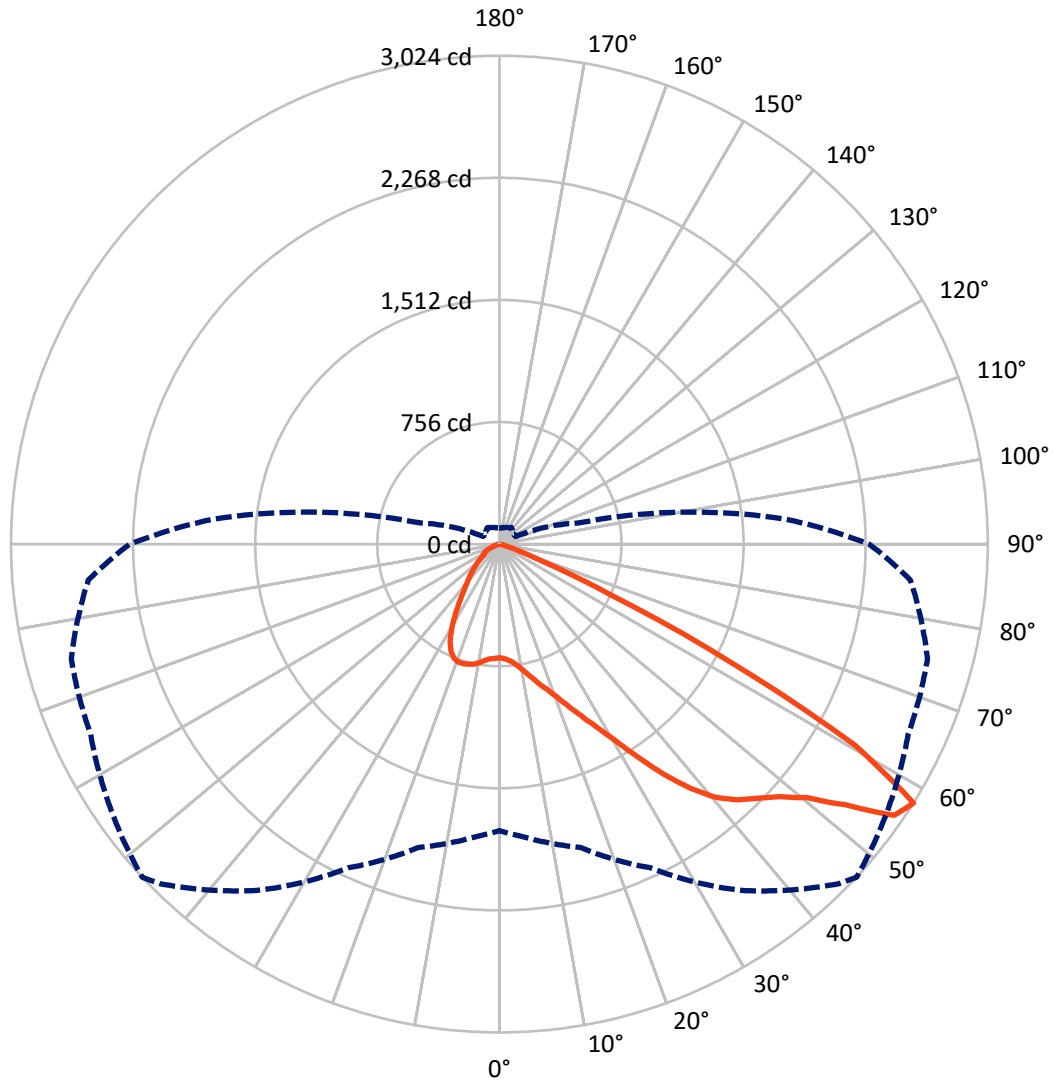
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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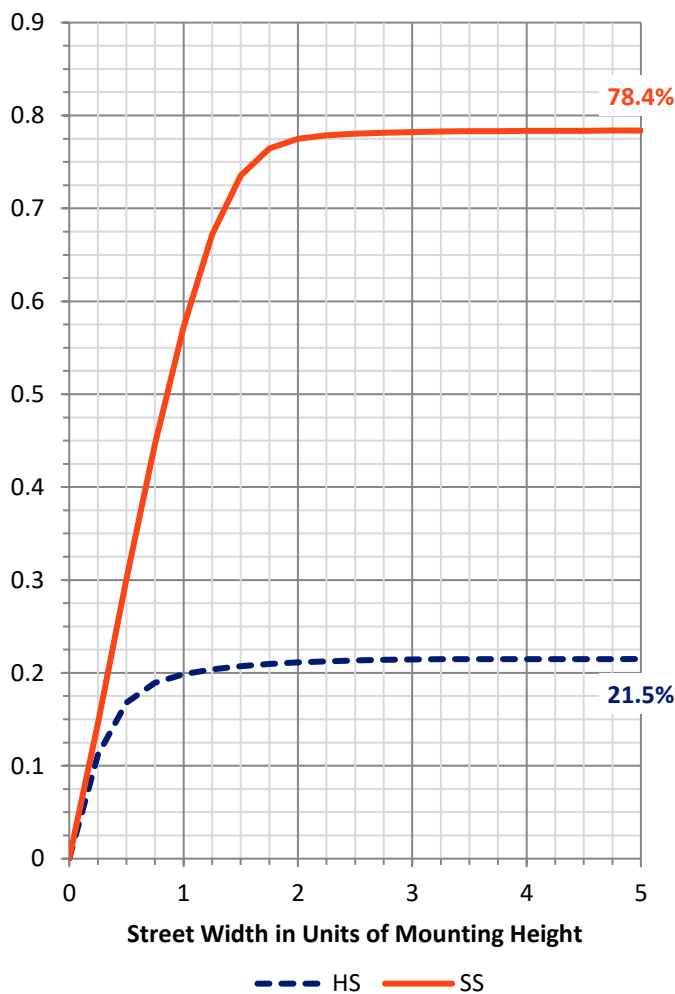
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	911.9	0.0	911.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	3291.3	0.0	3291.3
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	4203.2	0.0	4203.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.0	1.7
10°-20°	236.2	5.6
20°-30°	438.6	10.4
30°-40°	702.1	16.7
40°-50°	1026.3	24.4
50°-60°	1266.6	30.1
60°-70°	423.2	10.1
70°-80°	39.4	0.9
80°-90°	0.8	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°	4203.2	100.0
0°-180°	4203.2	100.0

**Coefficient of Utilization**



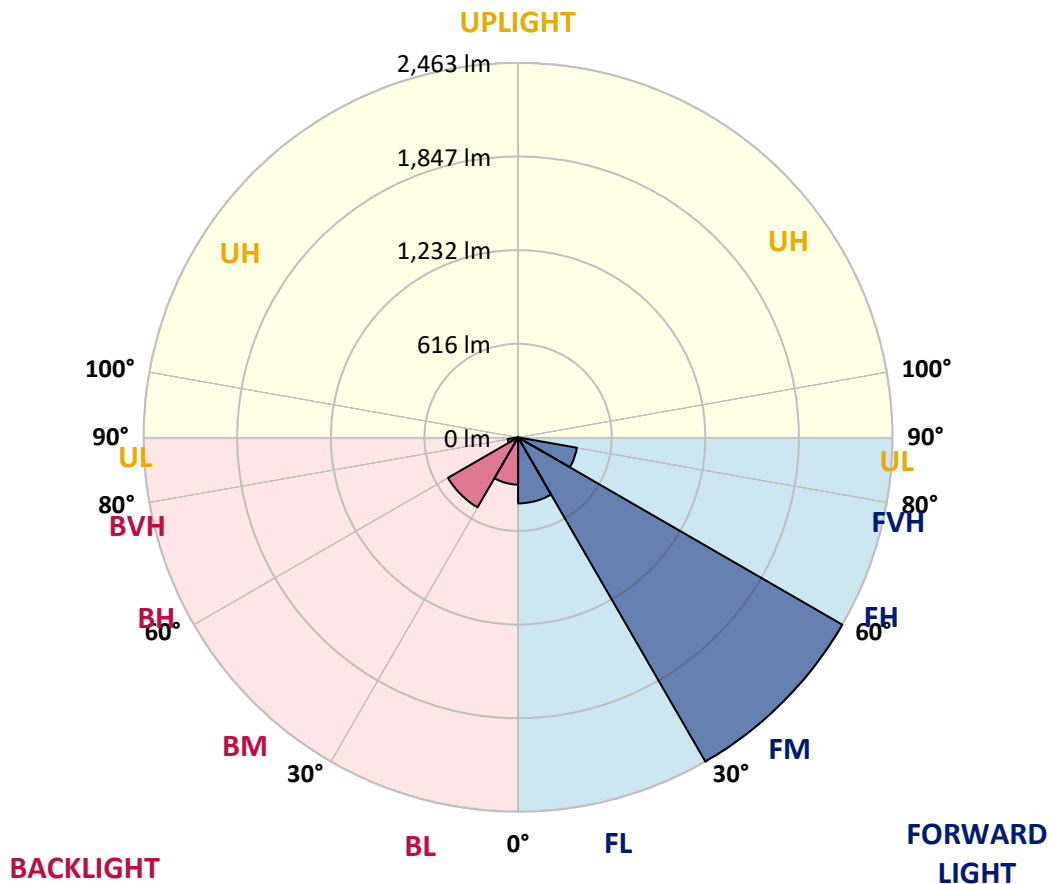
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.4	10.3			
FM (30°-60°)	2463.0	58.6			
FH (60°-80°)	393.3	9.4			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	310.4	7.4	B1/500		
BM (30°-60°)	531.9	12.7	B1/1000		
BH (60°-80°)	69.3	1.6	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°	45°	47°	55°	65°	75°	85°
0°	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6
2.5°	710.9	710.5	710.0	712.9	711.9	711.4	712.4	712.4	712.4	709.5	703.6
5°	728.0	728.0	727.5	730.5	728.0	726.6	727.0	727.0	725.1	719.7	712.4
7.5°	754.9	753.9	752.9	755.8	753.4	752.9	753.9	751.0	747.5	738.8	728.5
10°	793.4	793.4	791.9	794.9	792.9	791.9	791.9	790.0	783.6	770.0	754.9
12.5°	846.6	844.1	840.7	838.3	837.3	836.8	837.3	834.4	827.6	810.0	789.0
15°	904.7	902.7	897.3	893.4	888.1	887.1	890.0	887.6	880.7	856.8	827.1
17.5°	977.8	980.3	966.6	958.3	942.7	941.7	942.7	946.6	941.7	911.0	867.6
20°	1040.3	1042.3	1032.0	1026.2	1012.0	1005.7	1007.6	1014.0	1008.6	972.5	912.0
22.5°	1107.2	1109.6	1098.9	1086.7	1080.3	1080.3	1087.6	1096.4	1089.1	1041.8	962.7
25°	1187.2	1189.1	1180.3	1164.2	1153.0	1167.2	1177.9	1201.3	1189.1	1124.7	1022.7
27.5°	1278.9	1279.4	1266.7	1250.1	1244.3	1270.6	1281.3	1317.5	1312.6	1217.9	1086.2
30°	1377.0	1377.5	1374.5	1363.3	1358.0	1392.6	1407.2	1459.5	1456.0	1333.6	1172.5
32.5°	1479.0	1479.0	1484.3	1483.4	1489.7	1546.3	1569.7	1629.3	1625.8	1475.1	1279.9
35°	1581.4	1581.9	1591.2	1614.6	1641.0	1716.1	1746.9	1819.1	1811.3	1644.4	1417.0
37.5°	1698.1	1693.2	1705.9	1741.0	1799.6	1886.4	1915.7	1984.5	1975.7	1817.6	1596.1
40°	1838.6	1829.8	1829.8	1870.8	1937.2	2037.2	2062.1	2096.2	2066.5	1957.6	1771.7
42.5°	1993.8	1985.5	1974.7	2010.8	2066.5	2144.5	2165.0	2155.8	2131.4	2089.9	1971.8
45°	2150.9	2138.2	2145.5	2167.5	2199.7	2236.8	2244.6	2201.6	2190.4	2202.1	2137.2
47.5°	2270.4	2261.6	2279.7	2310.4	2336.8	2342.1	2336.8	2277.3	2276.3	2317.8	2251.9
50°	2310.4	2311.4	2361.2	2428.5	2471.0	2475.4	2468.0	2399.7	2390.5	2402.7	2313.8
52.5°	2314.3	2318.2	2390.9	2519.3	2634.9	2687.6	2681.8	2608.1	2517.3	2504.1	2407.5
55°	2220.2	2243.1	2344.6	2532.0	2777.9	2946.2	2965.7	2824.7	2690.1	2678.8	2609.1
57.5°	1774.7	1821.5	1944.0	2210.9	2618.3	2973.1	3023.8	2922.3	2792.0	2744.2	2554.9
60°	1060.8	1118.9	1236.5	1563.9	1992.8	2443.6	2531.0	2545.1	2485.1	2347.0	1960.1
62.5°	455.3	450.4	595.3	846.1	1185.2	1553.1	1592.7	1654.1	1706.4	1561.9	1189.6
65°	156.1	169.8	236.2	381.6	593.3	721.2	756.3	811.5	885.6	730.9	435.7
67.5°	96.6	102.5	136.1	225.4	320.1	315.2	299.6	290.8	283.0	193.7	119.5
70°	70.3	75.1	95.6	155.2	215.2	151.3	131.3	106.4	118.1	108.8	84.9
72.5°	47.3	51.2	65.9	94.2	110.3	73.7	68.3	77.6	93.7	89.3	69.3
75°	28.3	30.7	37.6	45.9	44.9	38.1	38.5	54.7	71.7	66.8	49.3
77.5°	19.5	20.5	24.9	29.8	22.0	11.7	10.7	15.1	24.4	24.4	16.6
80°	4.9	6.3	6.3	3.9	3.4	2.9	2.9	4.4	6.8	4.9	2.4
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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°	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6
2.5°	707.0	701.2	705.1	704.1	707.0	708.0	703.6	702.6	703.1	697.3	695.3
5°	713.9	707.0	709.0	707.0	710.5	713.4	711.9	713.9	716.3	711.9	710.0
7.5°	728.5	721.7	721.2	718.3	723.1	725.1	724.6	730.0	734.8	731.9	729.0
10°	753.9	744.6	743.6	741.2	742.7	744.1	738.8	739.7	744.1	740.7	739.2
12.5°	785.1	773.9	771.4	765.6	765.6	758.3	746.6	744.1	747.5	745.1	742.7
15°	818.8	803.6	799.7	789.5	779.7	766.1	753.9	751.0	753.4	750.5	748.5
17.5°	856.3	839.3	826.6	808.5	787.1	771.0	757.3	751.0	747.0	741.2	740.7
20°	893.4	871.0	849.5	820.7	792.4	768.0	745.6	729.0	714.8	706.1	702.6
22.5°	936.4	903.2	868.5	828.0	787.5	750.5	710.9	682.6	658.2	649.9	646.0
25°	982.2	939.3	887.6	834.9	771.0	711.4	657.8	615.8	583.6	572.9	568.5
27.5°	1033.0	973.9	907.1	833.4	736.8	655.8	584.6	532.4	500.6	490.9	494.3
30°	1097.4	1018.8	931.5	818.3	685.6	577.7	494.3	450.4	426.5	417.2	417.7
32.5°	1183.3	1083.2	967.1	786.1	619.7	488.9	415.7	383.5	367.4	355.2	354.2
35°	1306.2	1181.3	1000.3	734.4	539.7	409.9	356.7	331.3	308.9	294.7	297.2
37.5°	1453.6	1304.8	1018.3	664.6	449.9	348.4	312.3	286.4	261.1	240.1	242.5
40°	1628.3	1466.3	1016.9	572.9	367.9	306.4	275.2	244.9	213.2	194.2	196.2
42.5°	1823.0	1619.0	985.2	475.7	305.0	272.3	239.6	201.5	170.8	159.1	159.6
45°	1991.8	1742.9	929.5	375.2	256.7	239.1	202.5	163.5	149.8	141.5	141.0
47.5°	2116.7	1833.7	850.0	295.2	217.6	208.8	166.4	146.4	135.6	128.8	127.8
50°	2186.5	1865.4	762.2	231.3	184.0	177.1	148.8	132.7	125.4	121.0	120.0
52.5°	2280.2	1903.5	699.2	182.5	154.2	144.9	137.1	123.5	118.6	115.2	113.7
55°	2428.5	1977.2	644.6	144.9	128.3	126.4	129.3	118.1	115.2	109.8	107.8
57.5°	2289.0	1776.1	500.6	112.2	108.3	115.6	124.9	112.7	105.4	100.5	98.6
60°	1610.7	1180.8	251.8	90.3	96.6	108.3	117.6	102.0	94.7	95.6	94.7
62.5°	888.1	590.9	113.2	75.6	83.9	95.6	100.5	88.3	83.4	91.7	93.2
65°	290.3	201.0	65.4	58.6	66.4	78.1	86.9	83.9	83.0	92.7	95.6
67.5°	89.3	66.4	44.4	42.0	45.9	57.6	73.2	90.8	97.6	100.5	102.0
70°	66.8	52.2	38.1	35.6	37.6	43.9	62.0	75.6	71.2	71.7	70.8
72.5°	53.7	41.5	32.7	31.2	31.2	30.3	32.7	41.0	46.4	48.8	48.8
75°	37.6	29.3	24.9	22.9	18.1	14.6	13.2	13.2	11.7	11.2	10.7
77.5°	12.7	10.7	9.8	7.8	5.4	4.4	3.9	3.4	2.4	1.5	1.0
80°	2.0	1.5	1.0	1.0	1.0	0.5	0.5	0.5	0.0	0.0	0.0
82.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.0	0.0
85°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	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)