

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: P629499

Luminaire Tested: GWS-SA1B-827-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629499  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1B-827-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

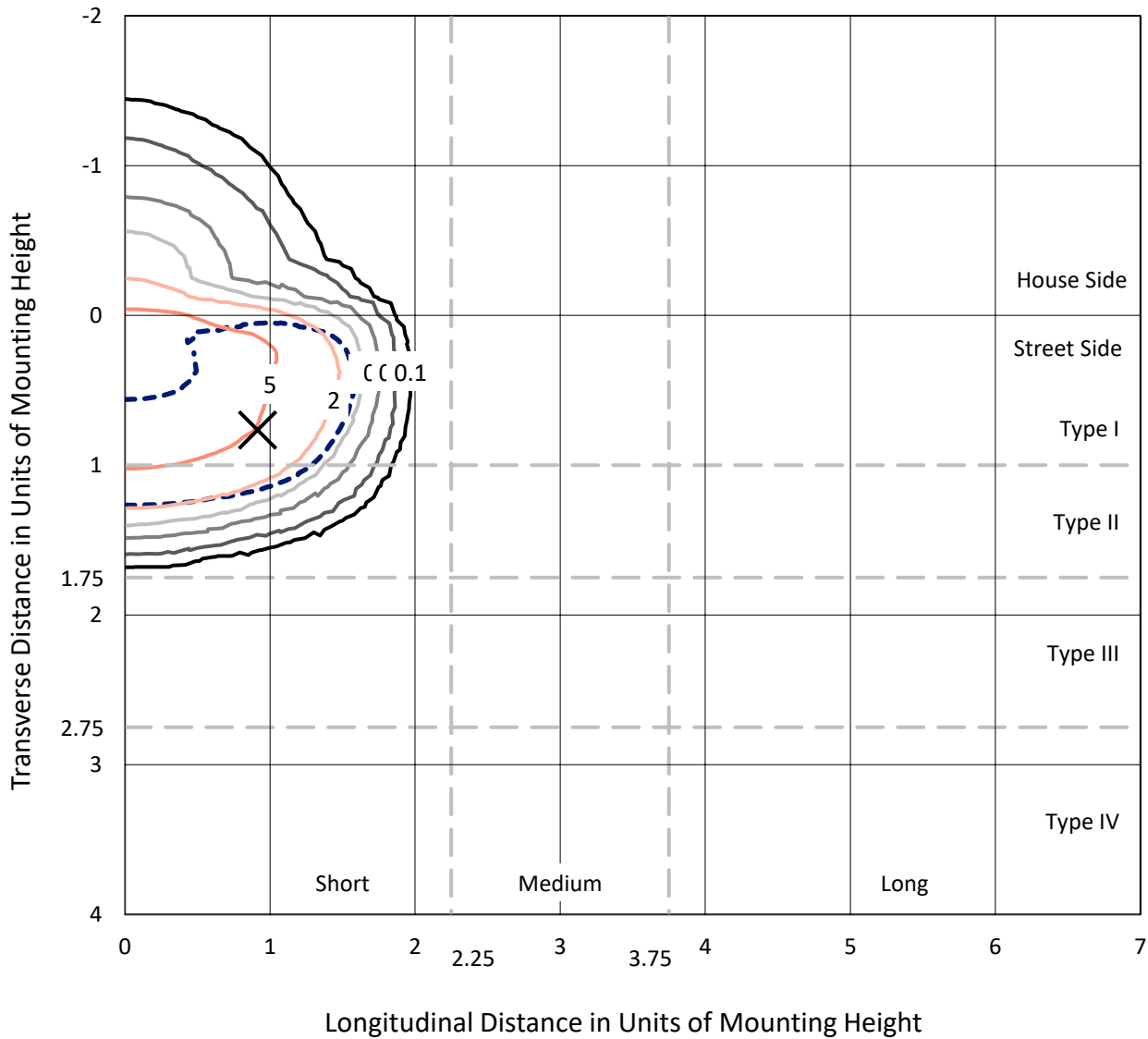
Lumens per Lamp: N/A  
Luminaire Lumens: 1984.3 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

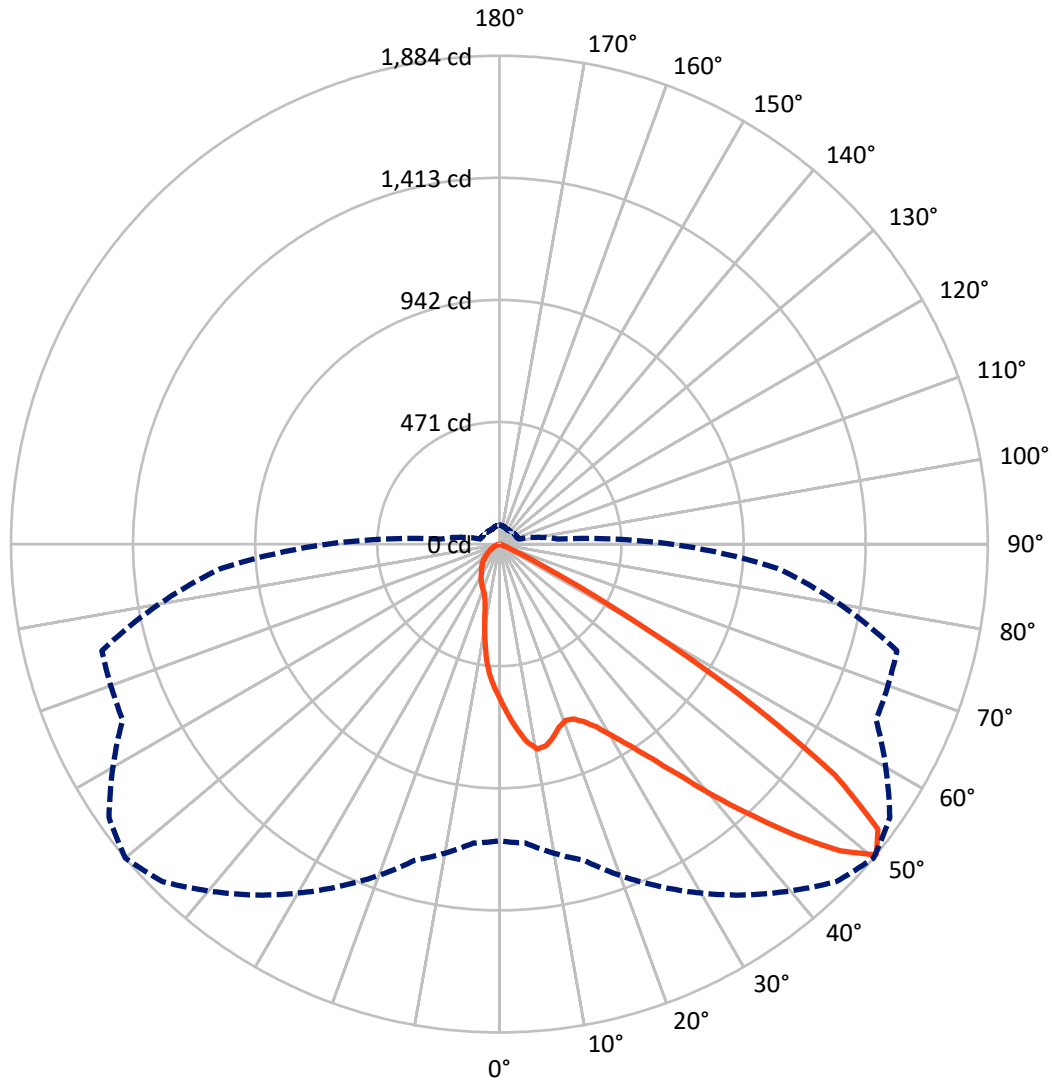
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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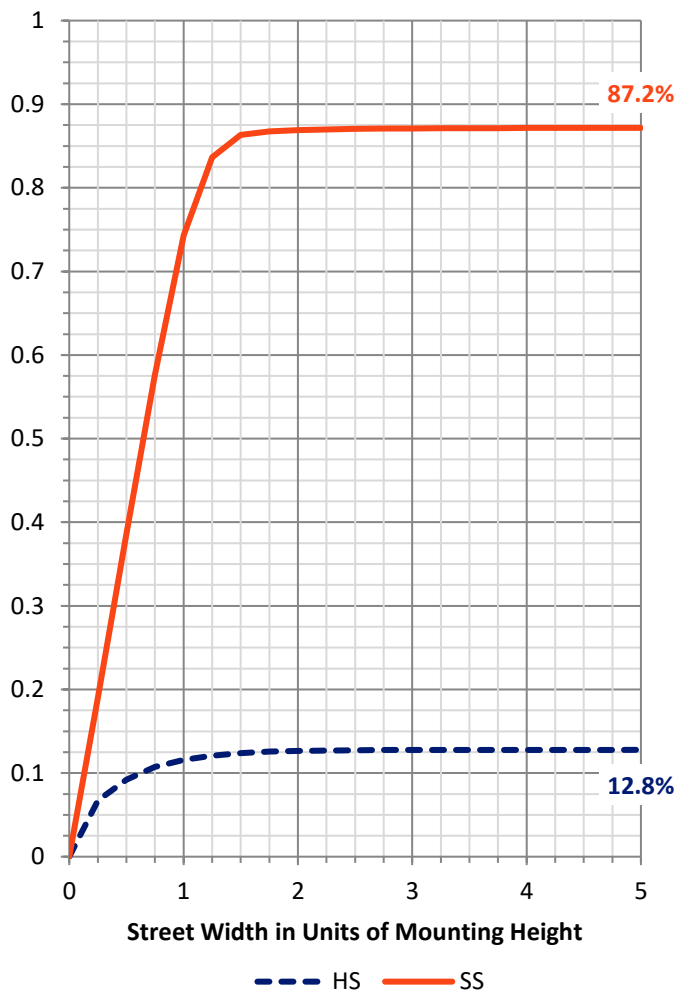
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	255.0	0.0	255.0
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	1729.4	0.0	1729.4
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	1984.3	0.0	1984.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.8	2.8
10°-20°	143.9	7.3
20°-30°	237.5	12.0
30°-40°	391.9	19.7
40°-50°	620.0	31.2
50°-60°	469.4	23.7
60°-70°	58.7	3.0
70°-80°	6.6	0.3
80°-90°	0.5	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°	1984.3	100.0
0°-180°	1984.3	100.0

**Coefficient of Utilization**

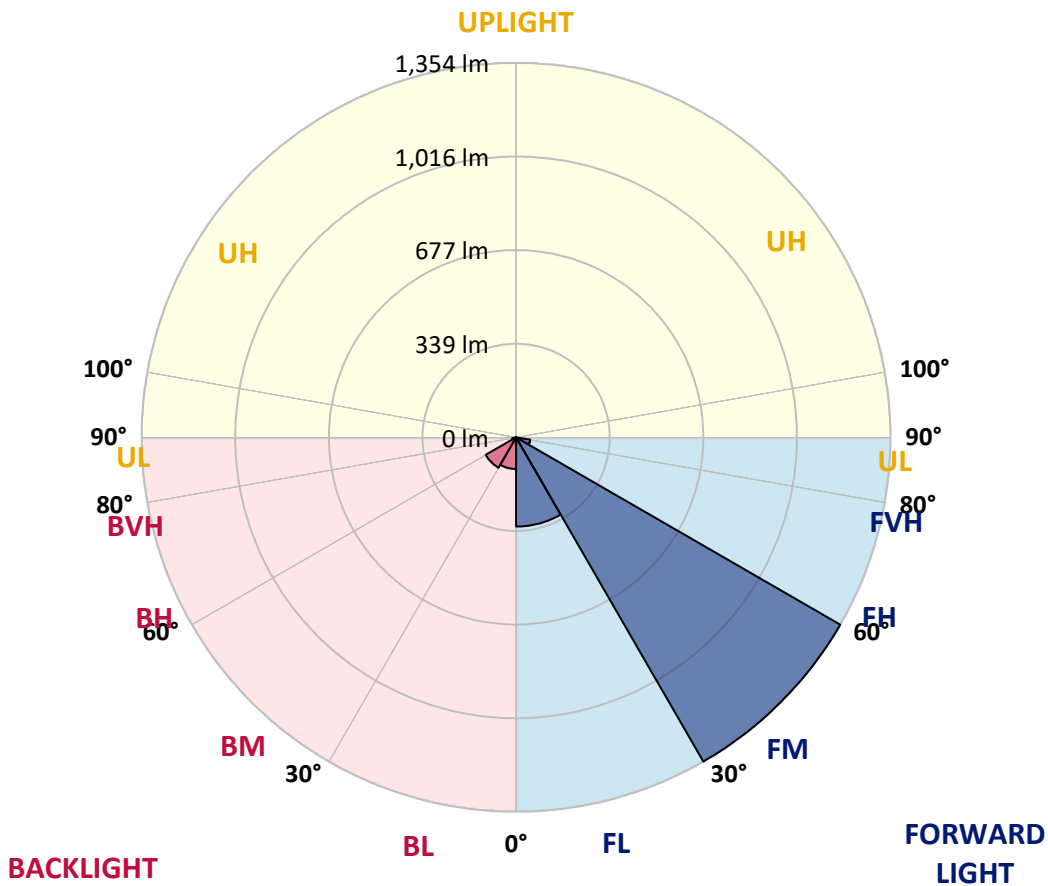


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.7	16.3			
FM (30°-60°)	1354.5	68.3			
FH (60°-80°)	51.9	2.6			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	114.4	5.8	B1/500		
BM (30°-60°)	126.8	6.4	B0/220		
BH (60°-80°)	13.5	0.7	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°	50°	55°	65°	75°	85°
0°	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2
2.5°	685.0	690.5	689.0	681.8	674.1	668.6	660.1	657.4	638.2	624.8	610.6
5°	767.7	769.4	767.6	758.9	745.3	732.2	718.3	710.1	677.8	648.8	619.1
7.5°	787.6	785.5	789.1	793.4	791.5	785.9	771.1	762.3	723.7	676.3	631.4
10°	725.6	720.9	734.3	756.8	780.4	807.0	803.3	804.0	768.5	711.1	647.4
12.5°	643.5	641.6	651.6	677.7	723.9	784.4	798.9	823.3	809.5	748.7	665.8
15°	607.4	608.3	614.4	630.8	664.1	739.2	774.2	818.2	846.1	785.1	686.0
17.5°	612.9	616.3	616.1	621.6	641.8	702.0	742.8	802.1	874.5	827.0	709.2
20°	650.1	653.5	648.4	644.2	651.0	692.6	726.4	785.9	893.5	869.4	733.7
22.5°	705.8	709.8	697.7	685.8	681.4	708.1	732.6	779.3	908.1	908.1	755.7
25°	773.2	778.7	760.0	738.8	726.8	740.7	759.2	794.2	923.0	942.8	770.6
27.5°	848.6	848.8	832.7	808.9	786.3	788.0	799.1	827.8	939.4	980.2	782.3
30°	933.4	933.9	912.6	884.1	855.6	847.8	857.3	879.0	973.6	1027.2	798.5
32.5°	1042.9	1045.6	1015.0	973.0	936.0	921.5	927.0	949.8	1028.0	1086.2	822.9
35°	1191.0	1193.8	1148.7	1093.4	1034.4	1012.5	1018.0	1041.0	1106.8	1169.8	861.8
37.5°	1337.2	1341.0	1295.3	1243.7	1162.9	1126.6	1132.3	1154.2	1225.0	1285.4	924.1
40°	1438.2	1443.3	1429.2	1394.4	1319.4	1271.8	1278.6	1286.6	1355.1	1423.7	1005.0
42.5°	1491.5	1498.7	1504.7	1522.5	1483.0	1443.1	1431.6	1432.2	1487.5	1564.6	1089.0
45°	1494.7	1501.7	1532.7	1601.2	1631.2	1622.9	1602.0	1587.8	1588.6	1658.4	1141.5
47.5°	1390.8	1403.8	1461.8	1596.1	1709.1	1778.0	1767.4	1733.8	1631.1	1664.7	1135.8
50°	1144.7	1157.6	1263.0	1456.2	1652.4	1839.9	1883.6	1838.4	1603.3	1587.1	1077.5
52.5°	831.4	832.7	901.1	1126.8	1422.7	1725.7	1828.4	1824.1	1561.0	1493.0	997.8
55°	394.9	390.2	467.1	635.9	984.0	1395.7	1568.9	1618.0	1500.9	1425.0	936.0
57.5°	115.0	117.3	151.5	248.2	492.2	892.0	1074.5	1165.9	1232.0	1171.5	726.0
60°	51.6	51.7	57.6	75.5	163.9	414.9	555.5	668.6	736.6	682.6	360.2
62.5°	37.4	37.6	39.9	42.7	55.7	140.5	208.3	277.6	282.7	185.1	91.2
65°	31.2	31.2	31.5	31.5	33.4	50.2	63.3	81.6	68.7	51.0	35.7
67.5°	25.1	25.3	25.7	25.7	25.1	25.1	27.2	29.8	31.9	39.5	32.9
70°	19.6	19.5	19.5	19.6	19.1	16.2	17.6	20.0	21.9	30.8	28.5
72.5°	15.3	15.5	15.3	14.5	13.2	9.6	10.4	13.0	14.0	19.3	19.3
75°	11.5	11.7	11.0	8.3	5.5	3.0	4.0	6.4	8.1	9.4	7.0
77.5°	1.5	1.5	1.1	1.1	0.9	1.1	1.1	1.5	2.3	2.3	1.7
80°	0.2	0.2	0.2	0.4	0.6	0.8	0.8	0.8	0.8	0.9	0.9
82.5°	0.2	0.2	0.2	0.2	0.6	0.6	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.2	0.4	0.6	0.6	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.2	0.4	0.6	0.6	0.6	0.8	0.8	0.8
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°	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2
2.5°	602.1	591.2	577.9	568.9	556.0	547.5	535.4	527.3	520.3	514.9	517.9
5°	602.3	584.9	557.9	534.9	509.8	486.7	462.0	442.5	425.0	417.0	421.4
7.5°	606.1	581.1	539.8	498.8	450.6	403.0	358.5	322.2	304.3	295.8	298.4
10°	613.4	579.4	519.6	451.6	373.4	308.4	265.2	240.6	230.6	225.3	226.3
12.5°	620.2	578.3	493.3	389.4	294.6	239.3	216.8	213.4	215.5	215.7	215.5
15°	629.5	576.2	460.8	325.6	235.7	206.8	207.4	212.3	217.2	218.7	218.3
17.5°	639.3	573.0	418.9	264.4	200.0	197.4	204.0	210.6	215.5	216.3	216.4
20°	649.5	566.4	371.1	215.9	183.4	190.2	197.6	202.5	206.1	207.2	207.6
22.5°	654.2	552.4	316.0	181.1	172.2	181.3	186.8	193.2	194.3	190.2	190.9
25°	651.8	528.8	262.1	157.7	161.1	170.2	178.3	175.1	170.4	167.3	168.3
27.5°	644.0	497.5	209.5	140.5	149.2	160.7	161.7	158.1	157.3	154.9	155.6
30°	635.7	461.4	168.5	126.7	137.1	149.2	146.4	147.7	147.9	145.0	146.0
32.5°	630.6	423.6	134.1	117.5	129.4	131.6	137.3	140.0	140.1	133.5	134.7
35°	632.3	386.4	113.5	109.9	122.2	121.6	129.6	131.1	120.1	111.1	112.0
37.5°	646.1	352.0	101.8	104.1	109.7	114.1	120.1	110.1	107.7	103.5	104.1
40°	671.8	322.8	94.8	100.5	101.2	108.2	99.0	100.3	100.5	97.8	98.4
42.5°	701.8	298.4	90.7	98.4	96.5	97.6	88.4	91.0	93.9	92.7	92.9
45°	716.9	274.6	87.1	91.2	91.8	81.0	78.9	81.8	85.4	85.9	86.1
47.5°	703.5	251.9	83.3	80.8	84.6	73.8	71.4	72.3	76.5	78.8	79.1
50°	662.5	225.9	77.6	71.6	69.5	66.3	64.0	64.2	68.9	72.9	73.7
52.5°	604.9	198.7	68.4	60.6	55.9	58.4	58.9	57.8	62.1	66.1	66.9
55°	549.0	164.7	54.2	49.3	45.0	50.2	51.7	50.2	51.6	54.2	54.4
57.5°	386.6	93.1	41.6	40.8	37.2	43.1	45.5	43.3	41.0	42.7	43.1
60°	179.2	48.7	31.9	31.9	31.0	37.0	41.2	38.0	33.6	34.4	34.9
62.5°	56.1	30.8	23.4	22.1	25.3	31.5	34.9	31.7	26.6	26.6	27.4
65°	31.7	26.4	18.5	17.0	20.6	25.3	27.4	24.0	19.5	19.1	19.1
67.5°	29.5	25.1	16.4	13.8	14.5	16.2	17.0	14.7	13.4	13.2	13.4
70°	24.4	21.0	13.2	9.4	8.9	8.7	9.1	8.5	8.1	8.3	8.9
72.5°	15.1	12.7	8.3	5.7	4.9	4.7	4.7	4.7	4.5	4.5	4.5
75°	5.5	4.7	3.8	2.8	2.5	2.3	2.3	2.5	2.3	2.1	1.9
77.5°	1.7	1.5	1.5	1.5	1.3	1.1	0.9	0.9	0.8	0.6	0.6
80°	0.9	0.9	0.9	0.9	0.8	0.8	0.6	0.4	0.2	0.2	0.0
82.5°	0.9	0.9	0.9	0.8	0.8	0.8	0.6	0.4	0.2	0.0	0.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.4	0.2	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.4	0.2	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)