

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: P629554

Luminaire Tested: GWS-SA1B-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629554
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2144.3 lumens
Efficiency: N/A
Efficacy: 85.8 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

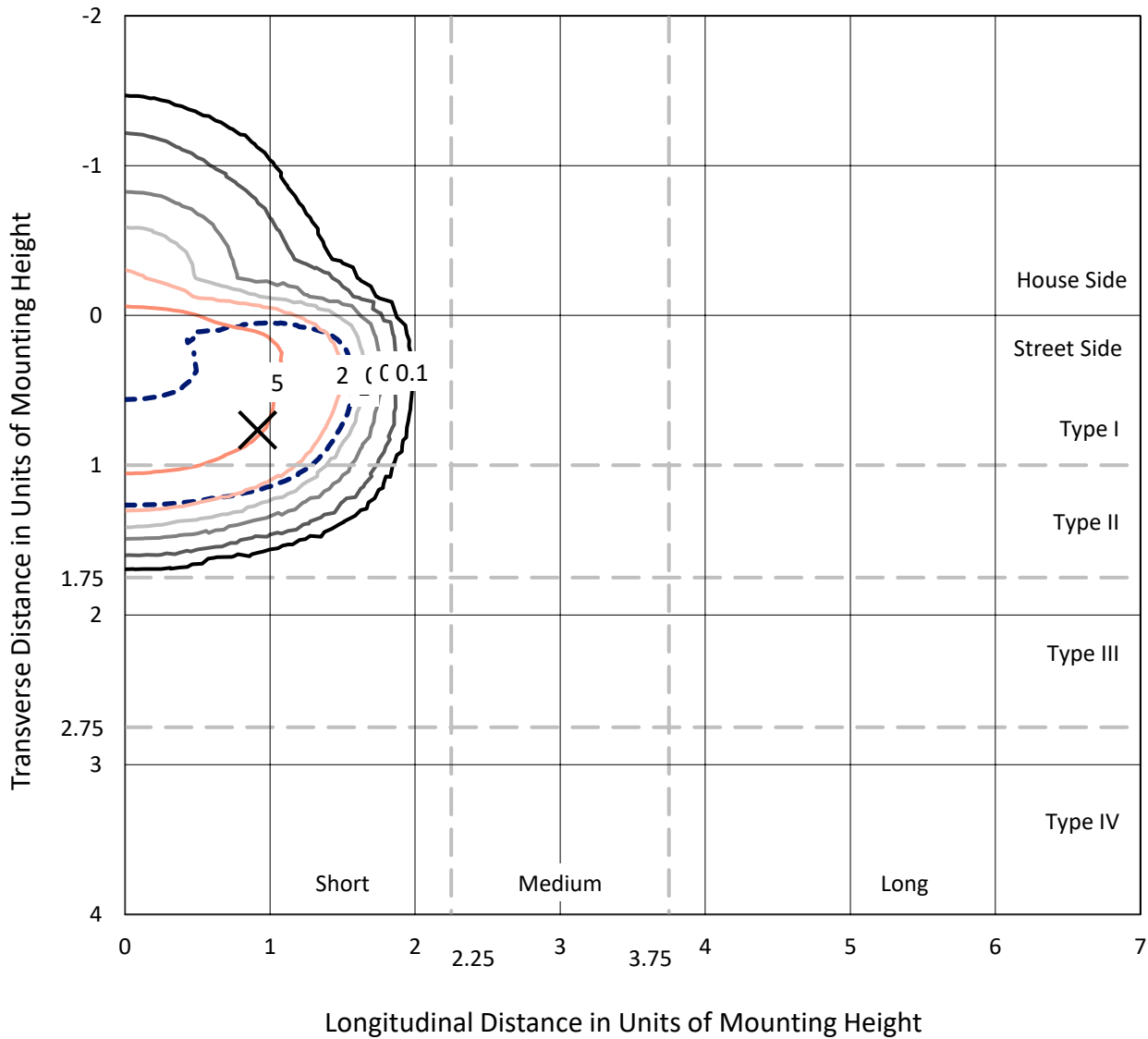
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P629554
 CATALOG NUMBER: GWS-SA1B-830-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

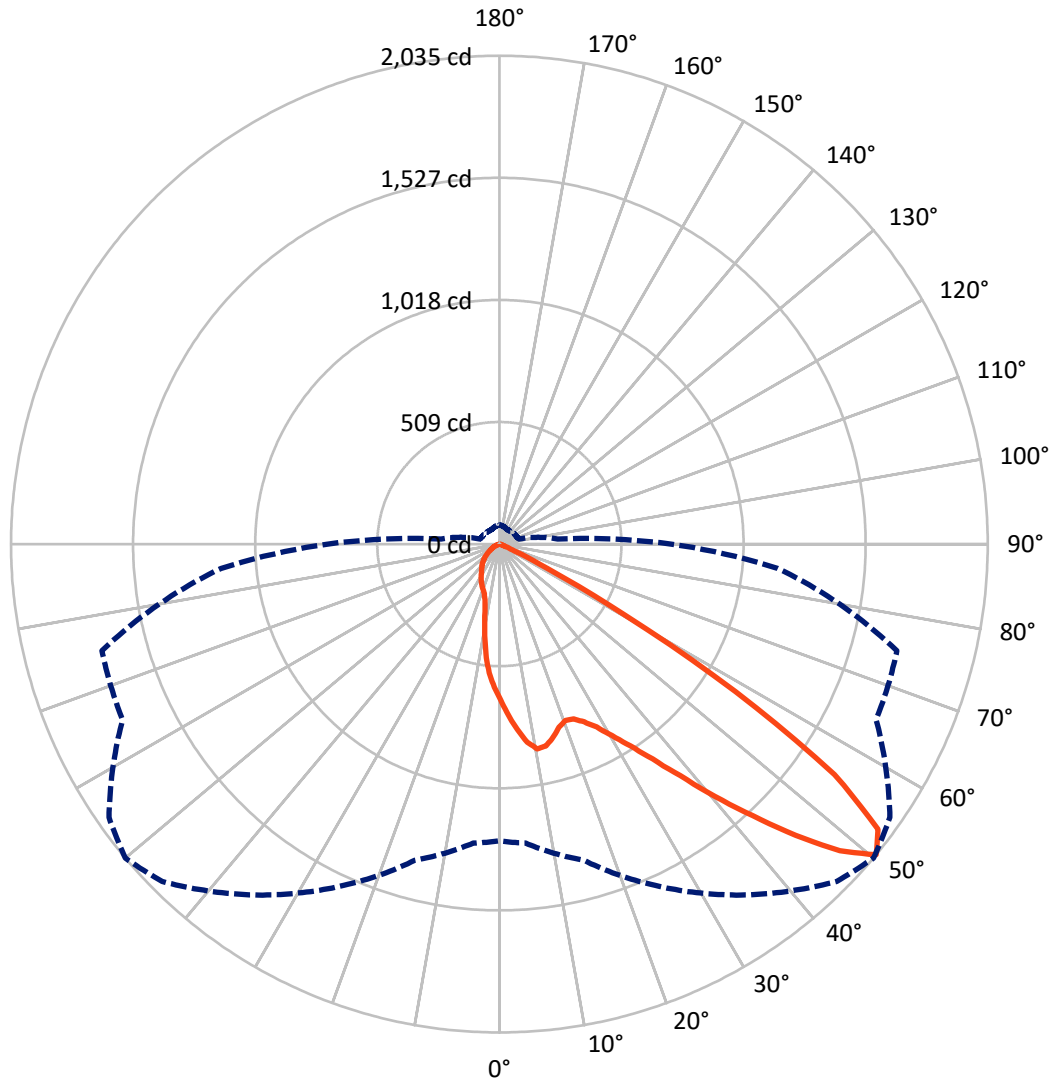
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

REPORT NUMBER: P629554
CATALOG NUMBER: GWS-SA1B-830-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



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

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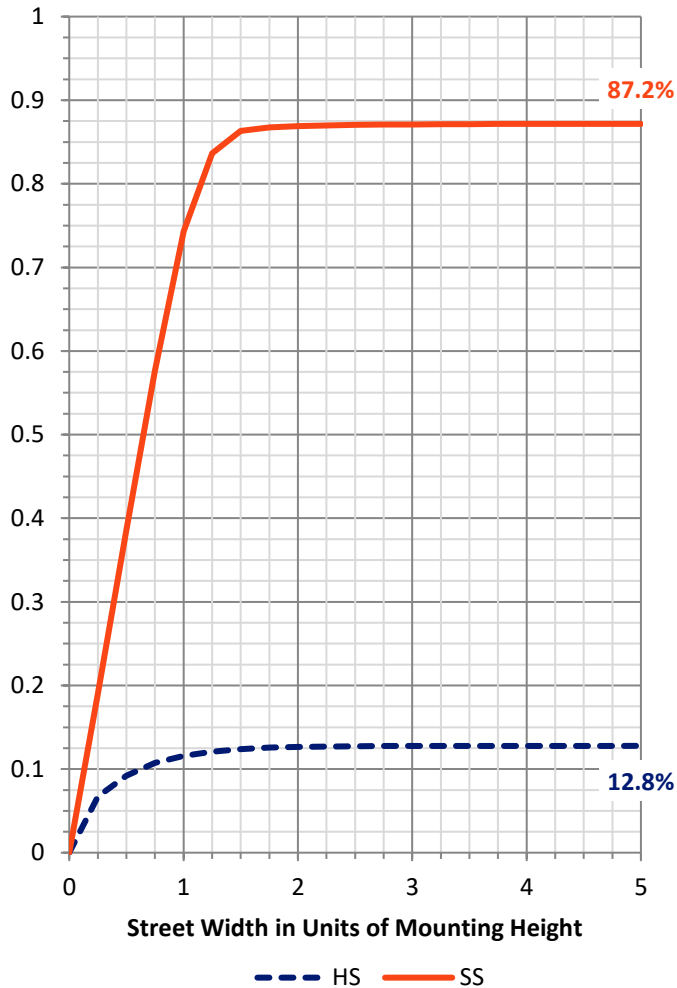
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	275.5	0.0	275.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	1868.8	0.0	1868.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	2144.3	0.0	2144.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	2.8
10°-20°	155.5	7.3
20°-30°	256.6	12.0
30°-40°	423.5	19.7
40°-50°	670.0	31.2
50°-60°	507.3	23.7
60°-70°	63.5	3.0
70°-80°	7.2	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°	2144.3	100.0
0°-180°	2144.3	100.0

Coefficient of Utilization



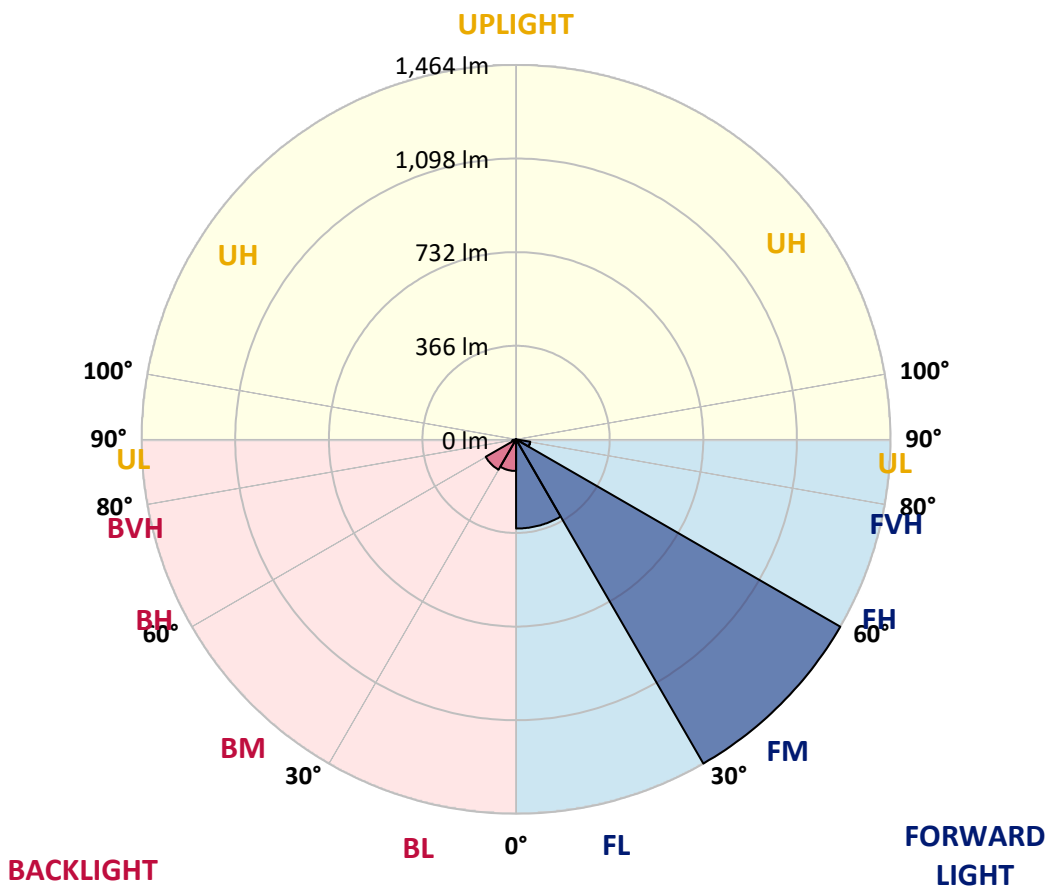
REPORT NUMBER: P629554

CATALOG NUMBER: GWS-SA1B-830-U-AFL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.7	16.3			
FM (30°-60°)	1463.7	68.3			
FH (60°-80°)	56.1	2.6			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	123.7	5.8	B1/500		
BM (30°-60°)	137.0	6.4	B0/220		
BH (60°-80°)	14.5	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





REPORT NUMBER: P629554

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	649.6	649.6	649.6	649.6	649.6	649.6	649.6	649.6	649.6	649.6	649.6
2.5°	740.3	746.2	744.5	736.8	728.4	722.5	713.3	710.5	689.6	675.1	659.8
5°	829.7	831.5	829.4	820.1	805.4	791.3	776.2	767.4	732.5	701.1	669.0
7.5°	851.1	848.8	852.7	857.4	855.4	849.2	833.3	823.7	782.1	730.9	682.3
10°	784.1	779.0	793.5	817.8	843.3	872.1	868.0	868.8	830.5	768.4	699.6
12.5°	695.4	693.3	704.1	732.3	782.3	847.6	863.3	889.7	874.8	809.0	719.4
15°	656.4	657.4	663.9	681.7	717.6	798.8	836.6	884.1	914.4	848.4	741.3
17.5°	662.3	666.0	665.8	671.7	693.5	758.6	802.7	866.8	945.0	893.7	766.4
20°	702.5	706.2	700.7	696.2	703.5	748.4	785.0	849.2	965.6	939.5	792.9
22.5°	762.7	767.0	753.9	741.1	736.4	765.2	791.7	842.1	981.3	981.3	816.6
25°	835.6	841.5	821.3	798.4	785.4	800.5	820.5	858.2	997.4	1018.8	832.7
27.5°	917.0	917.2	899.9	874.1	849.7	851.5	863.5	894.6	1015.2	1059.3	845.4
30°	1008.6	1009.3	986.2	955.4	924.6	916.2	926.4	949.9	1052.1	1110.1	862.9
32.5°	1127.0	1129.9	1096.8	1051.5	1011.5	995.8	1001.7	1026.4	1110.9	1173.8	889.2
35°	1287.0	1290.1	1241.3	1181.5	1117.8	1094.2	1100.1	1125.0	1196.0	1264.2	931.3
37.5°	1445.0	1449.1	1399.7	1344.0	1256.6	1217.4	1223.6	1247.2	1323.8	1389.1	998.6
40°	1554.2	1559.7	1544.4	1506.8	1425.8	1374.4	1381.7	1390.3	1464.4	1538.5	1086.0
42.5°	1611.7	1619.5	1626.0	1645.2	1602.6	1559.5	1547.0	1547.7	1607.5	1690.7	1176.8
45°	1615.2	1622.8	1656.2	1730.3	1762.8	1753.8	1731.1	1715.8	1716.7	1792.2	1233.6
47.5°	1503.0	1517.0	1579.7	1724.8	1846.9	1921.4	1909.9	1873.6	1762.6	1798.9	1227.4
50°	1237.0	1250.9	1364.8	1573.6	1785.6	1988.3	2035.4	1986.7	1732.6	1715.0	1164.4
52.5°	898.4	899.9	973.7	1217.6	1537.5	1864.8	1975.9	1971.2	1686.9	1613.4	1078.2
55°	426.8	421.7	504.7	687.2	1063.3	1508.3	1695.4	1748.5	1622.0	1539.9	1011.5
57.5°	124.3	126.7	163.7	268.2	531.9	963.9	1161.1	1259.9	1331.3	1266.0	784.5
60°	55.7	55.9	62.2	81.6	177.2	448.4	600.2	722.5	796.0	737.6	389.2
62.5°	40.4	40.6	43.1	46.1	60.2	151.8	225.1	300.0	305.5	200.0	98.6
65°	33.7	33.7	34.1	34.1	36.1	54.3	68.4	88.2	74.3	55.1	38.6
67.5°	27.1	27.3	27.8	27.8	27.1	27.1	29.4	32.2	34.5	42.7	35.5
70°	21.2	21.0	21.0	21.2	20.6	17.6	19.0	21.6	23.7	33.3	30.8
72.5°	16.5	16.7	16.5	15.7	14.3	10.4	11.2	14.1	15.1	20.8	20.8
75°	12.4	12.7	11.8	9.0	5.9	3.3	4.3	6.9	8.8	10.2	7.6
77.5°	1.6	1.6	1.2	1.2	1.0	1.2	1.2	1.6	2.4	2.4	1.8
80°	0.2	0.2	0.2	0.4	0.6	0.8	0.8	0.8	0.8	1.0	1.0
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°	649.6	649.6	649.6	649.6	649.6	649.6	649.6	649.6	649.6	649.6	649.6
2.5°	650.7	638.8	624.5	614.7	600.9	591.7	578.6	569.8	562.3	556.4	559.6
5°	650.9	632.1	602.9	578.0	550.9	526.0	499.2	478.2	459.2	450.6	455.3
7.5°	654.9	628.0	583.3	539.0	487.0	435.5	387.4	348.2	328.8	319.6	322.5
10°	662.9	626.2	561.5	488.0	403.5	333.3	286.6	260.0	249.2	243.5	244.5
12.5°	670.3	624.9	533.1	420.8	318.4	258.6	234.3	230.6	232.9	233.1	232.9
15°	680.3	622.7	498.0	351.9	254.7	223.5	224.1	229.4	234.7	236.3	235.9
17.5°	690.9	619.2	452.7	285.7	216.1	213.3	220.4	227.6	232.9	233.7	233.9
20°	701.9	612.1	401.0	233.3	198.2	205.5	213.5	218.8	222.7	223.9	224.3
22.5°	707.0	597.0	341.5	195.7	186.1	195.9	201.9	208.8	210.0	205.5	206.3
25°	704.3	571.5	283.3	170.4	174.1	183.9	192.7	189.2	184.1	180.8	181.8
27.5°	696.0	537.6	226.3	151.8	161.2	173.7	174.7	170.8	170.0	167.4	168.2
30°	687.0	498.6	182.1	136.9	148.2	161.2	158.2	159.6	159.8	156.7	157.8
32.5°	681.5	457.8	144.9	126.9	139.8	142.3	148.4	151.2	151.4	144.3	145.5
35°	683.3	417.6	122.7	118.8	132.1	131.4	140.0	141.6	129.8	120.0	121.0
37.5°	698.2	380.4	110.0	112.5	118.6	123.3	129.8	119.0	116.3	111.8	112.5
40°	726.0	348.8	102.5	108.6	109.4	116.9	106.9	108.4	108.6	105.7	106.3
42.5°	758.4	322.5	98.0	106.3	104.3	105.5	95.5	98.4	101.4	100.2	100.4
45°	774.7	296.8	94.1	98.6	99.2	87.6	85.3	88.4	92.3	92.9	93.1
47.5°	760.3	272.3	90.0	87.4	91.4	79.8	77.1	78.2	82.7	85.1	85.5
50°	716.0	244.1	83.9	77.4	75.1	71.6	69.2	69.4	74.5	78.8	79.6
52.5°	653.7	214.7	73.9	65.5	60.4	63.1	63.7	62.5	67.1	71.4	72.2
55°	593.3	178.0	58.6	53.3	48.6	54.3	55.9	54.3	55.7	58.6	58.8
57.5°	417.8	100.6	44.9	44.1	40.2	46.5	49.2	46.7	44.3	46.1	46.5
60°	193.7	52.7	34.5	34.5	33.5	40.0	44.5	41.0	36.3	37.1	37.8
62.5°	60.6	33.3	25.3	23.9	27.3	34.1	37.8	34.3	28.8	28.8	29.6
65°	34.3	28.6	20.0	18.4	22.2	27.3	29.6	25.9	21.0	20.6	20.6
67.5°	31.8	27.1	17.8	14.9	15.7	17.6	18.4	15.9	14.5	14.3	14.5
70°	26.3	22.7	14.3	10.2	9.6	9.4	9.8	9.2	8.8	9.0	9.6
72.5°	16.3	13.7	9.0	6.1	5.3	5.1	5.1	5.1	4.9	4.9	4.9
75°	5.9	5.1	4.1	3.1	2.7	2.4	2.4	2.7	2.4	2.2	2.0
77.5°	1.8	1.6	1.6	1.6	1.4	1.2	1.0	1.0	0.8	0.6	0.6
80°	1.0	1.0	1.0	1.0	0.8	0.8	0.6	0.4	0.2	0.2	0.0
82.5°	1.0	1.0	1.0	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)