

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: P629594

Luminaire Tested: GWS-SA1B-830-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-830-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2228.8 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

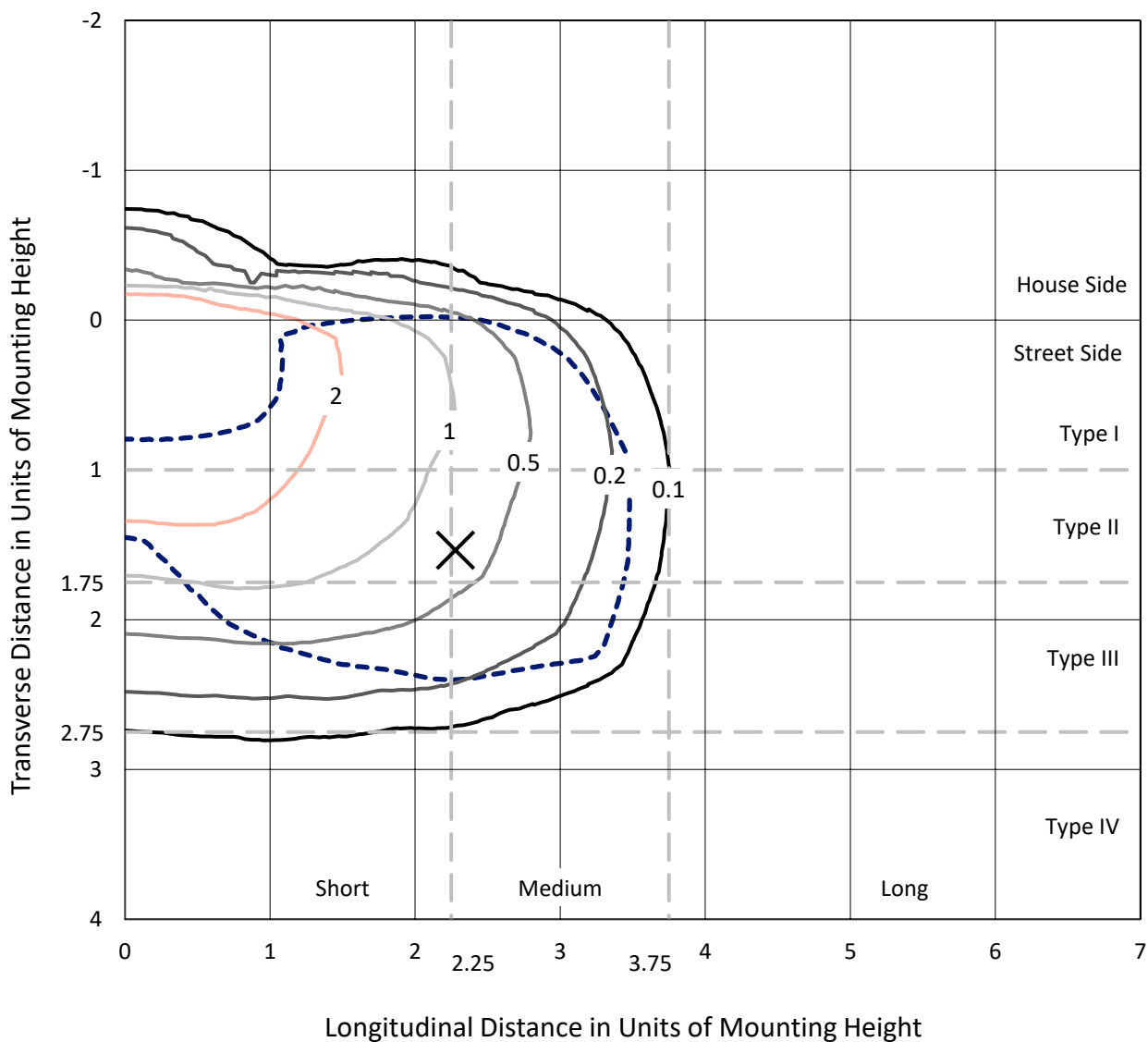
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

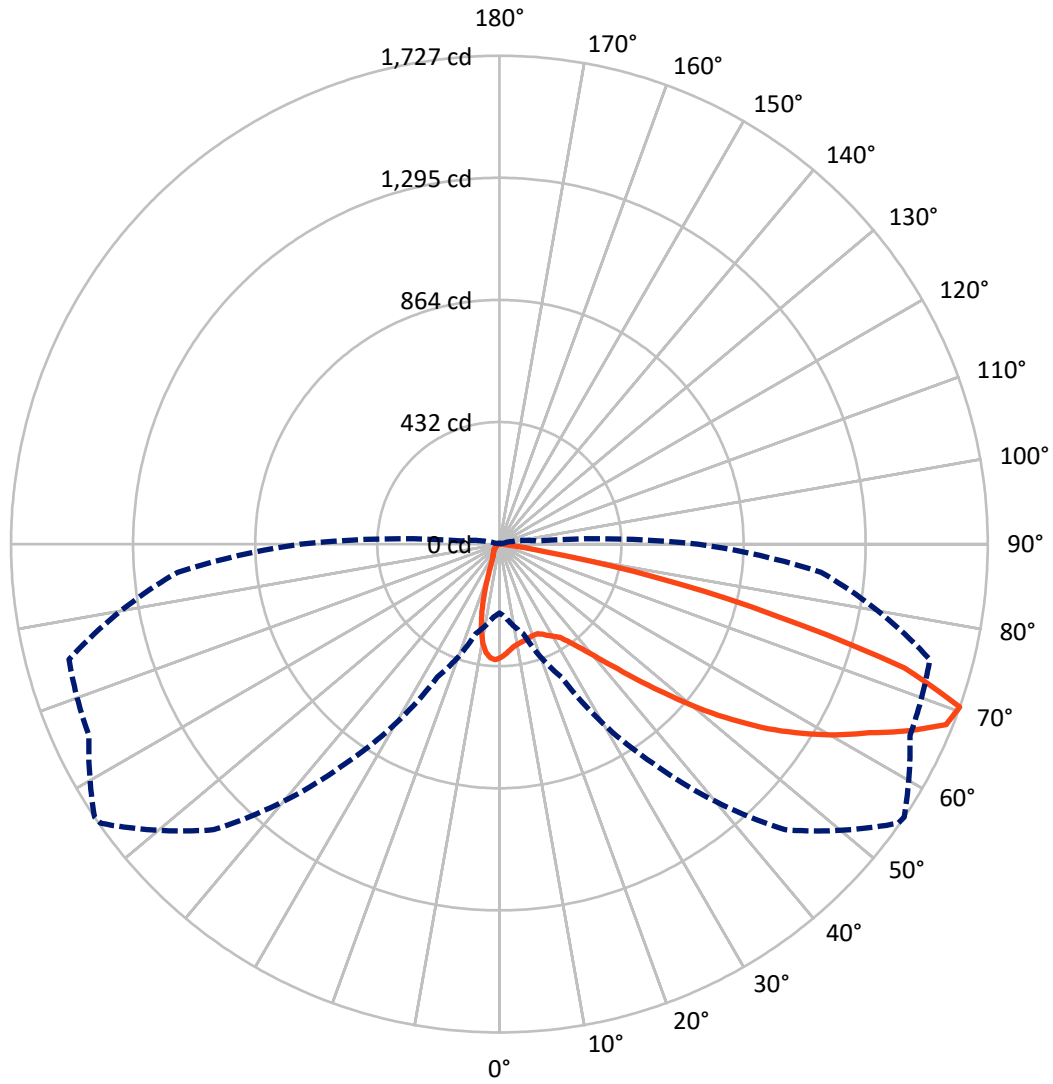
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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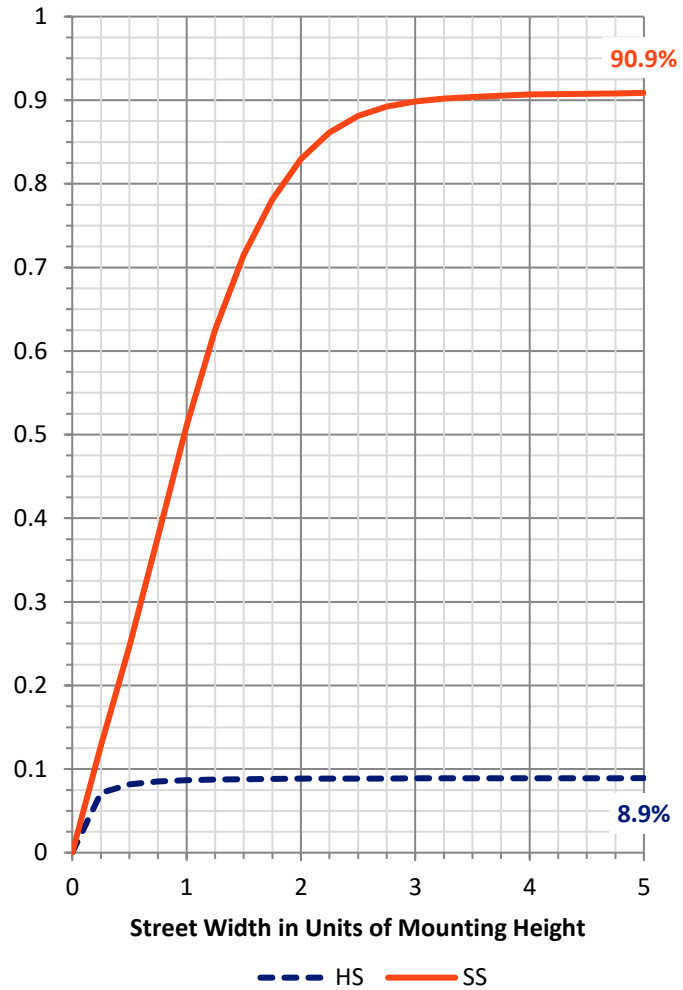
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	200.2	0.0	200.2
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	2028.6	0.0	2028.6
	% Fixture	91.0	0.0	91.0
Total	Lumens	2228.8	0.0	2228.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	1.5
10°-20°	77.6	3.5
20°-30°	122.9	5.5
30°-40°	212.0	9.5
40°-50°	358.0	16.1
50°-60°	526.0	23.6
60°-70°	623.6	28.0
70°-80°	265.9	11.9
80°-90°	8.3	0.4
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°	2228.8	100.0
0°-180°	2228.8	100.0

Coefficient of Utilization



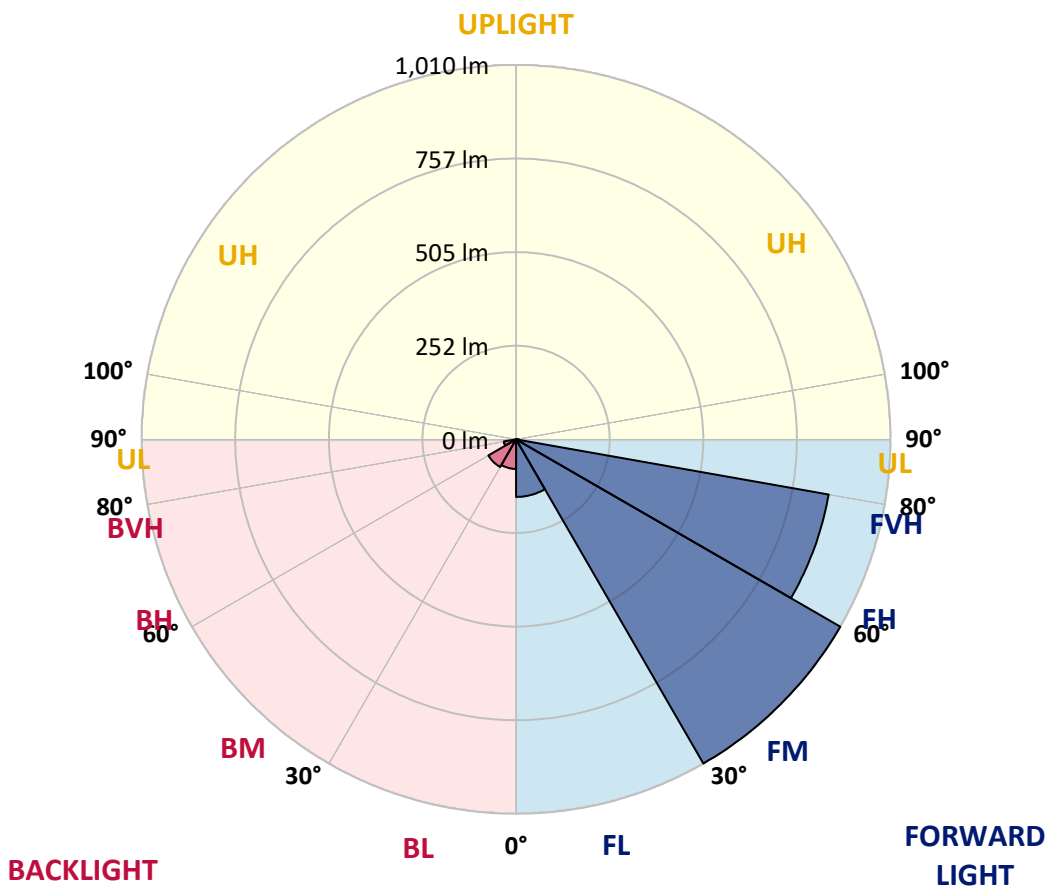
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	155.3	7.0			
FM (30°-60°)	1009.7	45.3			
FH (60°-80°)	856.1	38.4			G1/1800
FVH (80°-90°)	7.5	0.3			G0/10
BL (0°-30°)	79.7	3.6	B0/110		
BM (30°-60°)	86.2	3.9	B0/220		
BH (60°-80°)	33.4	1.5	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9
2.5°	374.1	373.5	373.9	377.0	382.7	385.3	389.8	390.6	394.3	399.0	400.9
5°	349.8	347.8	348.8	353.1	359.6	367.0	375.3	377.6	386.8	397.2	404.9
7.5°	327.6	325.3	327.8	334.5	343.7	351.7	364.1	365.5	380.2	398.6	412.7
10°	292.7	293.3	298.2	310.0	324.1	340.6	357.4	359.4	377.6	403.3	425.1
12.5°	265.9	264.5	269.8	283.3	303.1	327.2	352.3	354.9	377.8	410.4	441.1
15°	253.5	253.1	255.3	265.1	284.3	312.7	347.6	351.1	380.4	417.0	456.2
17.5°	253.9	253.3	253.1	258.8	273.1	301.9	342.5	347.0	382.7	424.1	472.1
20°	271.7	268.8	263.7	261.0	269.6	294.9	339.0	344.1	386.0	431.7	489.0
22.5°	308.8	309.8	296.2	281.9	277.8	295.7	338.6	344.5	393.1	443.5	509.8
25°	383.1	381.5	356.2	324.1	301.9	305.1	345.7	352.9	407.2	460.5	529.4
27.5°	476.2	477.6	442.9	391.9	345.3	324.5	358.8	366.0	423.5	471.1	542.5
30°	577.6	576.2	539.0	482.5	407.0	356.8	371.9	378.2	431.7	476.8	556.0
32.5°	673.5	670.3	633.5	574.3	485.6	407.6	389.8	393.5	442.5	489.2	574.1
35°	755.4	755.2	723.1	660.1	566.4	471.3	420.7	423.7	462.7	509.0	600.9
37.5°	839.9	837.0	801.1	743.5	649.4	541.1	467.8	466.6	494.5	538.2	633.7
40°	909.3	907.4	879.9	824.6	735.8	618.2	524.9	521.3	532.3	578.6	679.5
42.5°	960.7	960.9	952.3	918.7	827.2	707.4	596.8	591.1	590.9	639.7	739.9
45°	999.7	1002.3	1015.2	1010.1	935.2	811.3	688.8	682.9	672.9	718.8	809.1
47.5°	1017.9	1021.3	1060.1	1080.5	1029.7	914.4	798.4	786.0	766.4	824.2	886.4
50°	1016.0	1022.1	1076.2	1138.3	1115.4	1018.9	917.8	911.9	879.9	935.6	962.9
52.5°	974.4	987.4	1077.2	1173.4	1181.3	1115.2	1041.3	1030.3	1014.8	1051.9	1034.8
55°	861.3	877.2	1034.2	1184.6	1232.8	1199.3	1162.2	1153.2	1127.5	1161.7	1097.5
57.5°	799.9	813.5	943.6	1179.1	1276.4	1277.1	1269.7	1262.4	1241.1	1270.3	1170.9
60°	762.9	776.6	895.2	1158.9	1316.0	1359.1	1370.7	1369.9	1339.3	1393.8	1257.1
62.5°	708.8	727.6	844.8	1106.4	1344.2	1439.9	1475.0	1469.5	1435.4	1522.4	1342.4
65°	599.6	616.0	741.5	1019.9	1327.7	1506.9	1588.1	1591.0	1551.6	1643.4	1409.7
67.5°	420.4	432.5	557.2	838.2	1215.4	1528.9	1703.8	1703.6	1636.5	1705.5	1379.9
70°	243.7	260.2	329.2	518.2	945.6	1428.7	1721.2	1727.1	1602.0	1575.9	1141.9
72.5°	94.3	108.0	186.5	275.3	493.1	1094.4	1480.5	1497.9	1340.7	1215.6	794.8
75°	28.2	31.4	87.8	146.5	198.0	528.6	1002.3	1007.2	919.7	758.2	407.4
77.5°	21.0	23.3	38.4	74.1	69.4	160.2	518.6	566.4	488.2	270.8	112.3
80°	14.3	16.9	27.3	36.1	25.7	42.7	145.7	160.0	149.0	60.8	28.2
82.5°	6.3	8.2	19.4	18.2	9.4	12.2	44.9	47.8	30.8	18.4	9.8
85°	0.6	0.8	7.3	8.0	3.5	2.9	9.4	9.4	6.7	6.3	4.1
87.5°	0.0	0.0	0.2	0.4	0.4	0.6	0.8	1.0	1.2	1.6	2.0
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°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9
2.5°	405.5	403.1	406.2	408.6	409.2	404.7	402.1	398.2	397.4	397.6	396.6
5°	411.1	409.8	412.1	409.4	402.5	389.4	378.2	365.7	359.0	355.1	354.7
7.5°	421.3	420.7	418.2	406.2	384.5	355.5	327.6	300.2	283.3	277.2	276.1
10°	436.4	435.1	425.1	396.6	350.4	294.7	247.8	208.6	184.7	177.8	169.2
12.5°	453.7	451.3	429.4	376.0	299.0	221.9	163.3	119.4	98.8	92.7	92.7
15°	470.5	465.1	427.0	341.9	235.7	144.3	91.2	69.0	62.7	61.0	61.0
17.5°	487.6	477.4	417.4	295.3	162.9	85.3	60.8	56.5	55.7	55.9	56.1
20°	503.7	487.8	400.4	239.4	103.9	59.6	54.5	53.5	53.1	53.5	53.3
22.5°	521.3	497.4	374.7	178.4	67.6	53.7	51.8	51.0	50.6	51.2	51.2
25°	538.6	504.3	340.6	120.0	53.7	50.0	49.0	48.2	47.8	48.0	48.0
27.5°	547.6	501.7	295.9	76.5	48.2	46.3	45.3	44.3	43.7	43.5	43.7
30°	553.7	493.5	241.2	54.5	43.7	41.4	40.4	39.6	38.0	36.9	37.4
32.5°	563.3	485.4	181.9	45.7	40.0	36.5	34.9	32.9	30.6	29.6	29.6
35°	574.7	474.1	127.6	41.2	36.1	32.5	29.4	25.9	23.3	22.5	22.5
37.5°	589.9	463.5	84.9	38.2	32.9	29.0	24.7	20.6	17.8	17.3	17.1
40°	612.5	454.5	59.8	35.9	30.0	25.3	20.2	15.9	13.9	13.3	13.3
42.5°	641.9	445.3	47.4	33.7	27.6	21.8	16.1	12.7	11.0	10.6	10.4
45°	678.2	434.5	41.2	31.6	25.1	18.2	12.9	10.6	9.4	9.0	9.0
47.5°	717.6	419.8	38.4	29.0	22.2	14.7	10.8	9.2	8.6	8.4	8.2
50°	756.4	400.0	35.9	26.5	19.0	12.0	9.4	8.4	8.0	7.8	7.8
52.5°	790.3	377.0	32.9	23.7	15.5	10.4	8.4	7.8	7.3	6.9	6.7
55°	819.3	351.9	29.0	20.4	12.7	9.2	7.8	7.1	6.7	6.3	6.1
57.5°	856.6	337.6	23.3	16.5	10.4	8.2	7.1	6.5	6.1	5.5	5.5
60°	898.0	327.2	17.3	13.1	9.0	7.6	6.5	5.9	5.5	4.9	4.9
62.5°	931.3	311.7	13.7	10.6	7.8	6.7	5.9	5.3	4.9	4.3	4.3
65°	944.0	279.6	11.2	8.4	6.3	5.9	5.3	4.9	4.3	3.7	3.7
67.5°	886.8	215.5	9.4	6.7	5.3	5.1	4.7	4.5	3.7	3.3	3.1
70°	702.3	131.4	7.8	5.5	4.5	4.3	4.3	3.9	3.3	3.1	2.9
72.5°	481.3	67.8	6.3	4.5	3.9	3.9	3.7	3.5	3.1	2.9	2.9
75°	250.0	22.7	4.9	3.5	3.1	3.3	3.3	3.1	2.9	2.9	2.7
77.5°	71.6	10.2	3.7	2.7	2.4	2.4	2.7	2.7	2.7	2.4	2.4
80°	18.6	5.9	2.7	2.0	2.0	2.0	2.0	2.2	2.4	2.2	2.2
82.5°	7.6	3.3	1.8	1.6	1.6	1.6	1.6	1.8	2.0	2.0	2.0
85°	4.7	1.6	1.4	1.4	1.4	1.2	1.2	1.4	1.4	1.6	1.6
87.5°	2.9	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0	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

(END OF REPORT)