

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: P628868

Luminaire Tested: GWS-SA1A-740-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-740-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2821.4 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

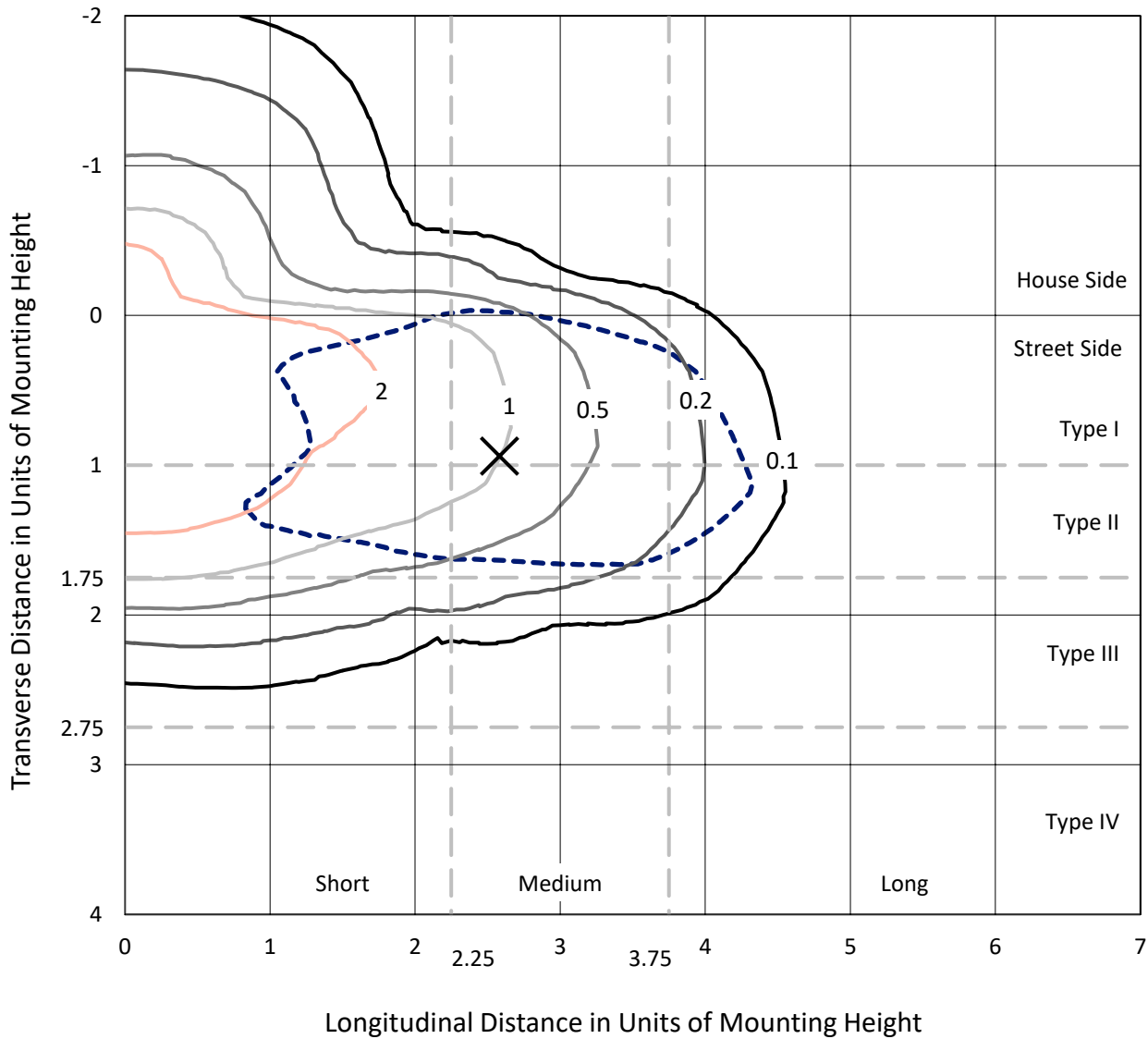
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

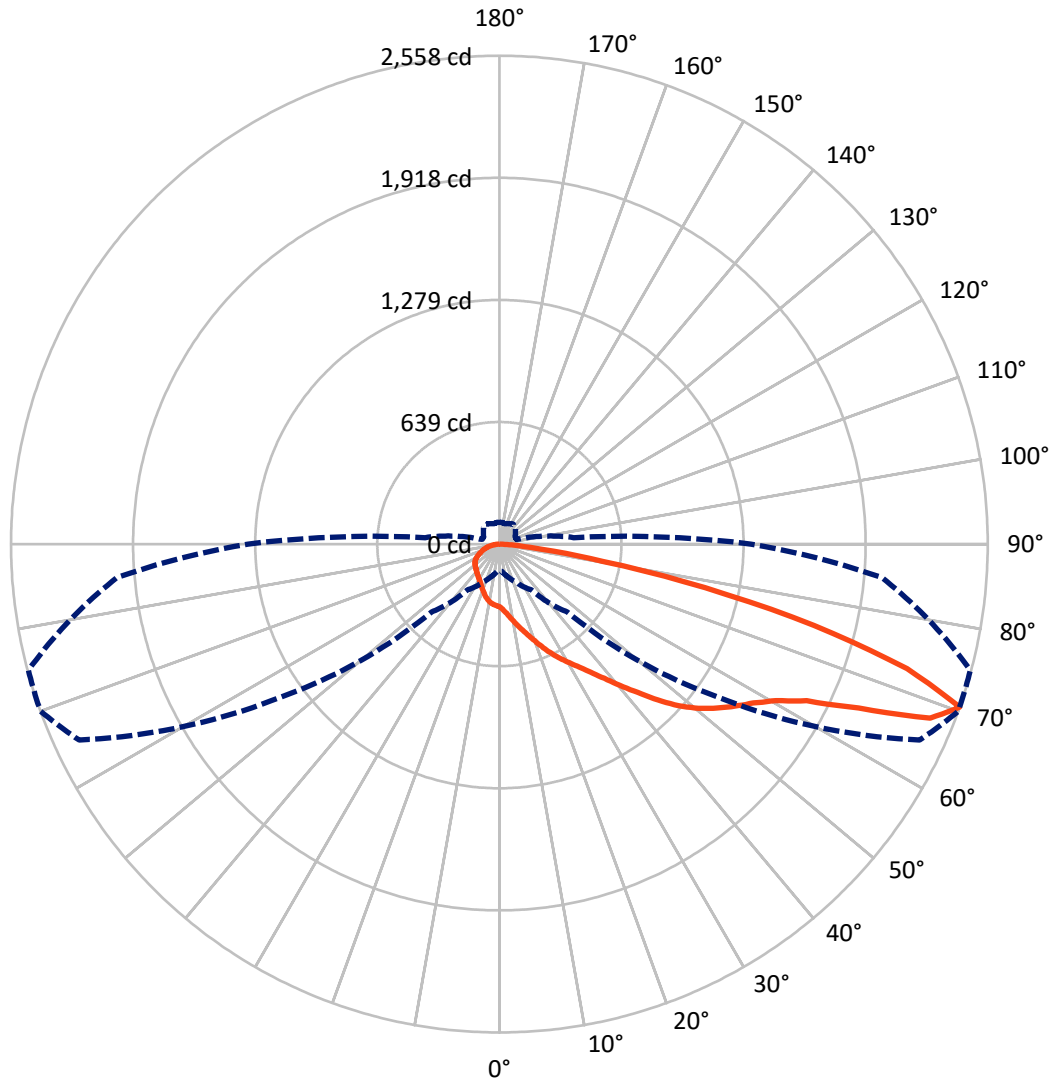
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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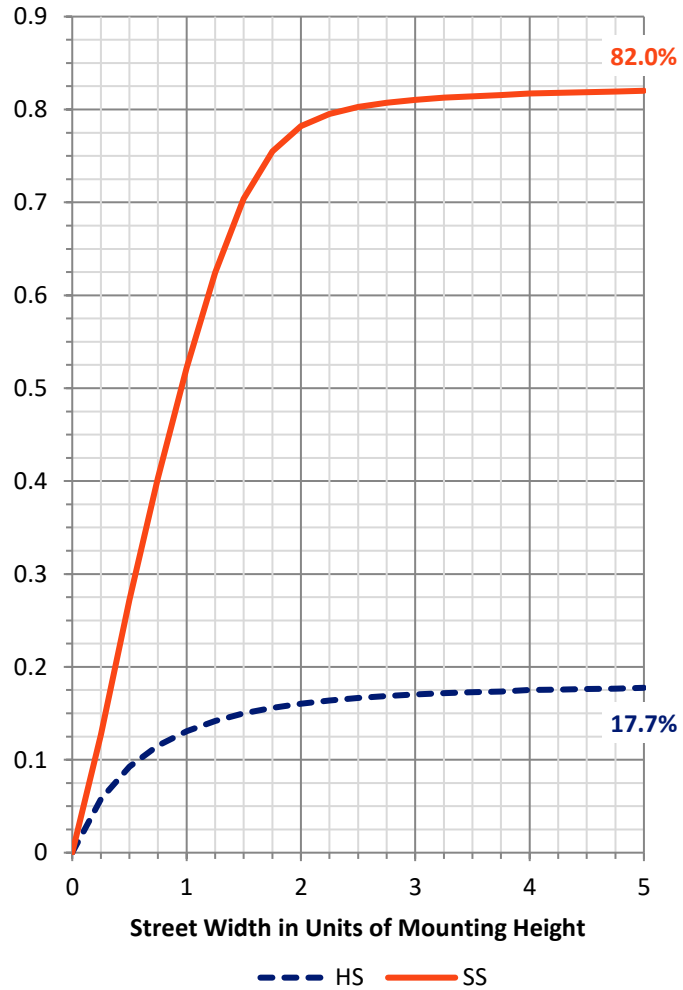
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	505.6	0.0	505.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	2315.8	0.0	2315.8
	% Fixture	82.1	0.0	82.1
Total	Lumens	2821.4	0.0	2821.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	1.2
10°-20°	108.8	3.9
20°-30°	192.7	6.8
30°-40°	290.1	10.3
40°-50°	438.8	15.6
50°-60°	628.6	22.3
60°-70°	694.9	24.6
70°-80°	392.1	13.9
80°-90°	41.9	1.5
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°	2821.4	100.0
0°-180°	2821.4	100.0

Coefficient of Utilization



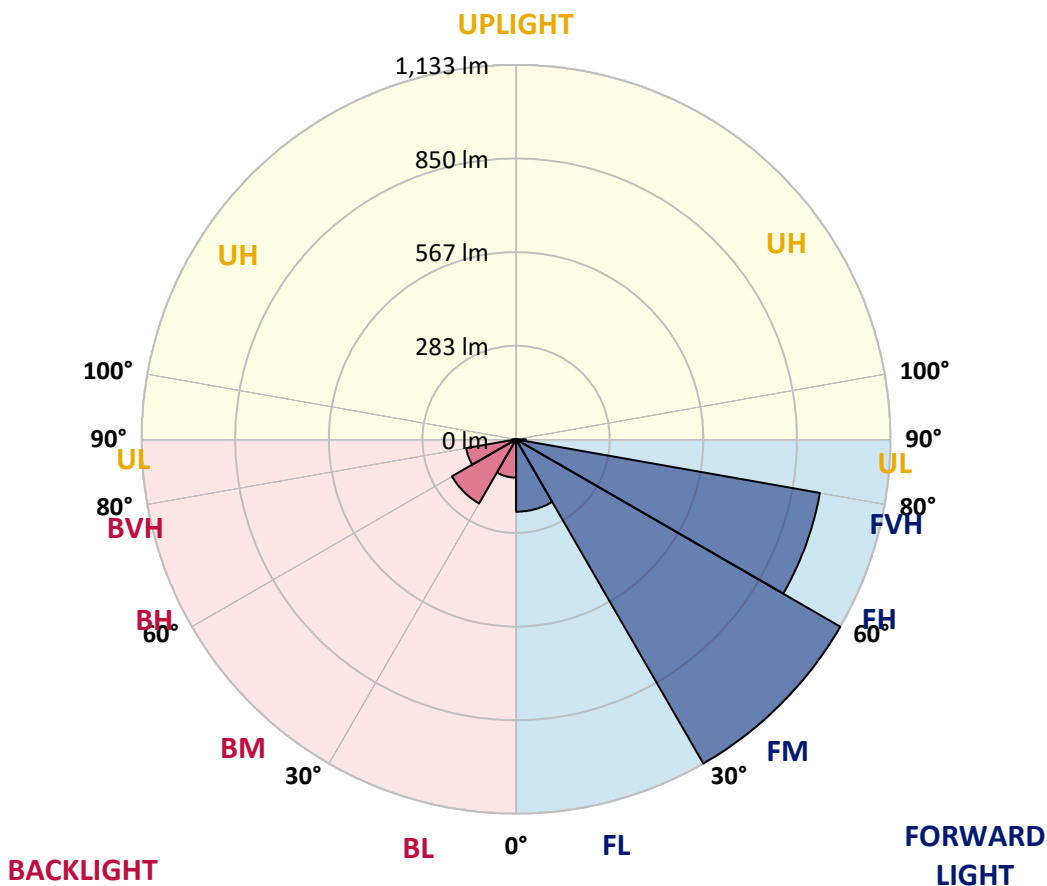
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	219.0	7.8			
FM (30°-60°)	1133.4	40.2			
FH (60°-80°)	933.8	33.1			G1/1800
FVH (80°-90°)	29.6	1.1			G1/100
BL (0°-30°)	115.9	4.1	B1/500		
BM (30°-60°)	224.1	7.9	B1/1000		
BH (60°-80°)	153.2	5.4	B1/500		G1/500
BVH (80°-90°)	12.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0
2.5°	364.5	363.9	364.3	363.9	361.7	356.1	351.7	346.0	342.1	339.8	334.5
5°	407.3	406.7	405.3	403.2	399.2	391.6	380.4	368.0	360.4	354.7	343.5
7.5°	438.1	438.1	437.9	435.4	432.6	424.6	411.4	395.1	384.1	374.3	355.9
10°	453.8	454.8	456.2	459.7	459.1	454.8	442.4	424.8	411.0	399.6	372.3
12.5°	462.4	463.0	465.4	472.6	479.9	480.9	473.6	455.2	440.1	424.8	390.4
15°	473.4	473.6	476.8	485.4	496.2	507.0	505.2	486.8	471.3	454.4	410.6
17.5°	481.9	483.4	489.3	499.3	512.7	527.6	536.6	525.1	506.0	486.6	432.6
20°	485.0	486.0	493.8	509.0	527.4	548.4	568.4	565.3	545.9	523.1	457.5
22.5°	496.0	496.0	501.7	514.5	536.2	566.7	599.2	607.1	590.0	563.3	484.2
25°	520.3	519.4	522.1	527.4	543.7	581.4	629.5	653.4	634.2	604.2	510.9
27.5°	553.5	553.1	552.9	553.7	559.2	594.3	655.2	696.6	677.4	643.6	534.7
30°	589.6	588.3	591.0	588.6	587.3	609.5	677.0	735.3	720.4	682.5	554.5
32.5°	638.7	636.5	635.8	627.9	623.0	633.4	694.6	779.4	767.5	724.5	576.7
35°	703.5	701.5	691.1	678.5	664.0	668.9	716.4	822.4	823.2	777.1	605.9
37.5°	769.0	769.4	761.2	731.5	716.6	713.7	749.6	874.8	892.3	839.9	643.6
40°	823.4	825.8	825.8	794.5	772.2	769.6	796.3	937.0	971.8	917.0	691.3
42.5°	864.8	867.0	874.2	851.5	828.1	837.3	853.0	999.3	1061.9	1012.2	751.6
45°	910.2	912.1	916.0	902.9	889.2	913.7	917.2	1073.9	1165.1	1119.0	821.8
47.5°	970.6	969.0	969.4	959.8	949.2	988.7	987.9	1136.7	1264.8	1236.0	897.8
50°	1045.6	1048.7	1045.8	1026.9	1014.4	1050.5	1055.2	1206.3	1352.4	1351.8	974.5
52.5°	1117.8	1119.0	1134.1	1134.9	1109.4	1101.9	1114.1	1276.4	1426.4	1457.8	1048.1
55°	1121.4	1126.1	1171.4	1204.0	1245.2	1184.6	1173.6	1343.2	1498.0	1561.6	1124.5
57.5°	1043.4	1050.9	1127.8	1198.1	1312.7	1326.7	1275.6	1429.7	1569.5	1663.7	1213.0
60°	876.6	892.3	996.7	1104.3	1282.3	1428.9	1484.1	1547.1	1663.5	1768.1	1320.4
62.5°	559.8	565.9	712.3	892.5	1145.5	1418.9	1711.2	1754.0	1806.6	1904.1	1486.0
65°	280.3	299.9	385.7	532.7	826.0	1250.3	1826.0	2133.0	2068.6	2136.9	1754.2
67.5°	190.2	196.5	239.9	320.1	484.4	885.8	1754.8	2452.3	2433.3	2444.5	2040.3
70°	140.3	144.3	178.6	226.7	293.0	502.9	1397.1	2428.2	2557.7	2553.6	2010.3
72.5°	102.3	104.4	130.3	173.1	217.1	260.1	853.2	1961.6	2232.7	2350.3	1758.1
75°	74.4	76.9	90.5	129.5	168.8	162.3	421.2	1416.8	1702.7	1928.9	1432.3
77.5°	55.5	58.5	64.8	81.1	118.2	116.2	182.0	920.0	1101.3	1259.9	870.1
80°	40.0	40.6	44.2	52.0	75.0	68.1	86.6	479.7	550.0	602.6	341.1
82.5°	24.3	24.9	29.6	32.0	46.5	42.8	45.1	155.3	222.6	236.3	127.4
85°	7.1	7.5	13.5	14.7	19.4	18.3	18.1	63.2	75.4	96.4	50.2
87.5°	0.0	0.0	0.0	0.0	0.2	1.2	2.2	11.2	16.9	23.4	12.2
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°	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0
2.5°	332.5	327.8	325.4	321.1	318.0	315.0	311.9	309.1	307.8	306.0	306.4
5°	338.4	331.1	323.7	315.4	308.2	302.3	297.0	292.3	290.3	288.5	289.3
7.5°	347.4	336.4	322.3	307.0	295.8	287.6	282.1	278.9	277.9	276.4	276.4
10°	358.8	342.3	317.6	295.8	282.3	275.8	273.4	273.2	274.2	274.4	274.0
12.5°	371.4	348.0	310.7	282.6	271.1	269.1	270.9	274.4	277.9	279.7	279.3
15°	384.5	351.7	298.9	269.9	263.0	265.6	271.5	278.5	285.2	288.7	288.5
17.5°	396.7	352.5	283.6	257.7	255.8	262.6	272.8	283.6	292.7	297.6	297.8
20°	410.4	351.1	267.9	246.7	248.7	259.7	273.2	286.2	297.0	301.9	303.1
22.5°	422.8	346.2	252.6	236.3	242.6	256.3	269.9	282.1	291.7	296.4	298.0
25°	434.0	336.8	235.9	227.5	237.9	251.4	261.8	270.3	277.0	279.9	282.1
27.5°	440.1	322.7	223.2	220.6	233.4	244.4	250.1	252.8	255.0	254.2	255.8
30°	441.4	305.2	212.2	215.1	226.7	234.8	236.1	233.4	229.5	223.2	224.7
32.5°	440.1	285.0	203.0	209.2	219.2	224.0	222.4	215.5	206.1	196.3	196.9
35°	440.5	264.6	195.5	202.6	210.4	213.0	209.0	199.4	189.4	180.4	180.0
37.5°	445.0	247.5	189.2	196.3	201.8	202.2	197.7	187.8	182.7	175.9	175.1
40°	457.5	234.8	183.5	190.0	193.5	193.3	188.2	181.0	184.5	182.3	181.6
42.5°	477.9	227.1	178.8	183.3	185.7	186.1	182.0	177.6	185.1	182.3	181.2
45°	510.7	226.7	175.5	176.5	180.4	183.3	180.4	175.3	178.2	164.3	161.7
47.5°	549.6	233.6	173.1	170.6	177.4	182.5	178.0	169.8	163.9	151.3	149.4
50°	596.5	247.7	170.8	164.3	172.9	179.4	174.9	163.7	154.7	148.0	147.0
52.5°	652.2	266.2	168.0	157.2	166.1	177.8	174.9	163.1	151.3	145.1	144.1
55°	710.5	287.6	164.7	148.6	158.6	178.2	176.3	158.8	148.6	145.4	144.5
57.5°	782.8	313.3	158.8	138.6	151.9	174.5	170.6	156.4	146.8	144.1	143.3
60°	876.8	351.5	147.6	128.4	144.1	168.0	165.5	152.3	141.9	139.6	139.0
62.5°	1025.6	416.1	133.9	118.6	135.0	154.3	158.0	144.5	135.8	135.6	135.4
65°	1268.2	493.8	117.8	109.9	125.4	143.1	148.0	136.6	129.5	131.7	131.5
67.5°	1438.2	500.5	104.6	100.7	114.2	130.9	138.0	128.4	120.7	125.0	124.8
70°	1317.4	390.4	93.2	91.1	102.1	117.6	127.2	118.2	110.5	114.6	113.8
72.5°	1111.0	299.3	82.4	81.1	89.9	103.8	113.3	108.0	99.9	99.9	98.1
75°	892.9	246.9	70.9	70.3	76.2	89.7	100.5	91.5	84.0	83.6	82.4
77.5°	512.1	161.9	59.5	59.1	61.0	75.0	78.1	76.2	70.5	67.9	67.1
80°	204.1	84.2	46.9	44.2	46.1	55.0	61.6	58.5	53.6	50.4	48.5
82.5°	79.1	42.2	33.0	28.9	31.6	39.8	44.6	43.6	40.4	33.0	31.0
85°	32.2	20.6	19.8	16.7	18.3	21.4	25.7	22.2	18.3	13.0	12.4
87.5°	8.6	7.5	7.3	4.5	3.5	1.0	0.2	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)