

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: P629500

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
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-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2390.2 lumens
Efficiency: N/A
Efficacy: 95.6 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

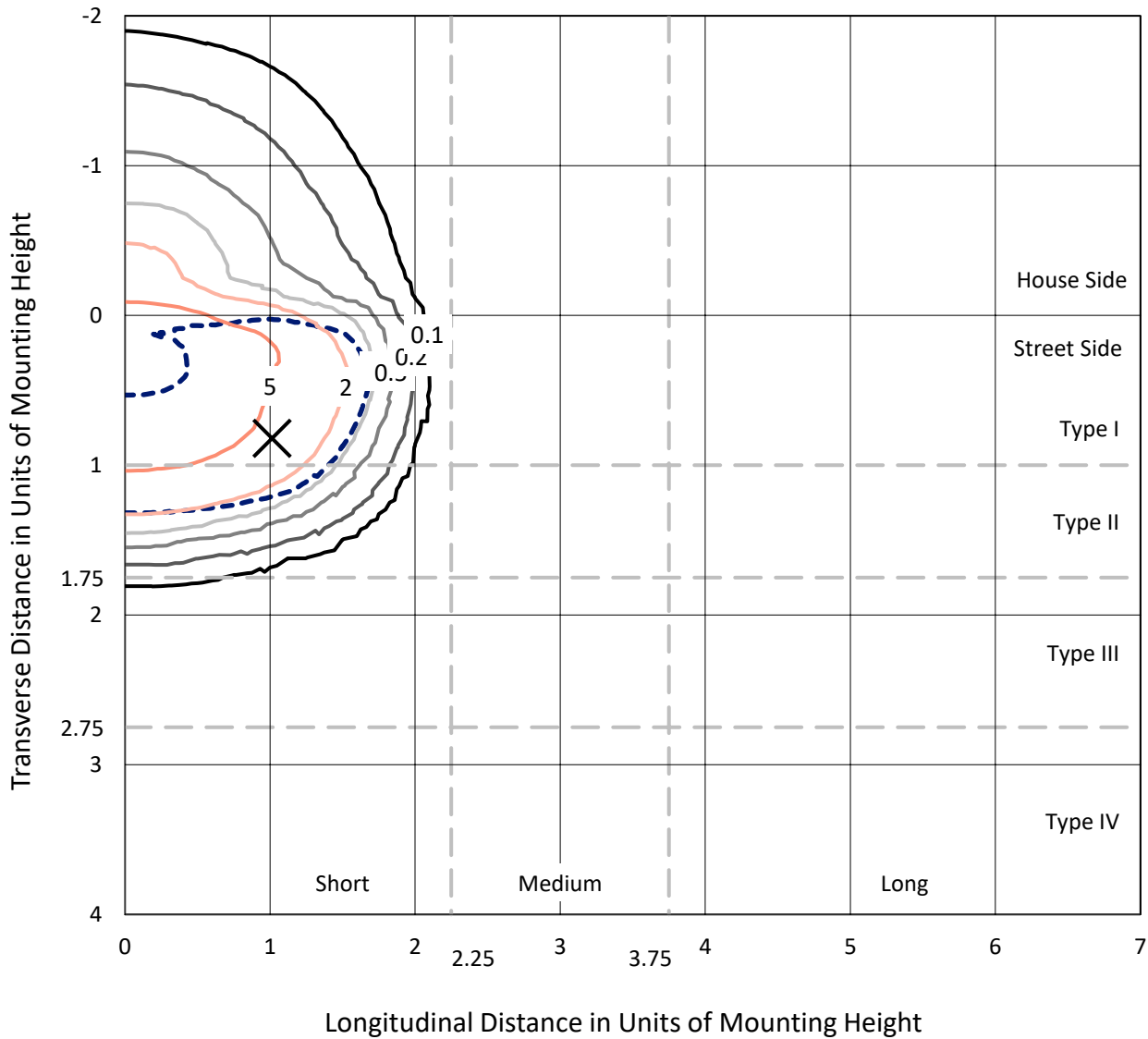
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA1B-827-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

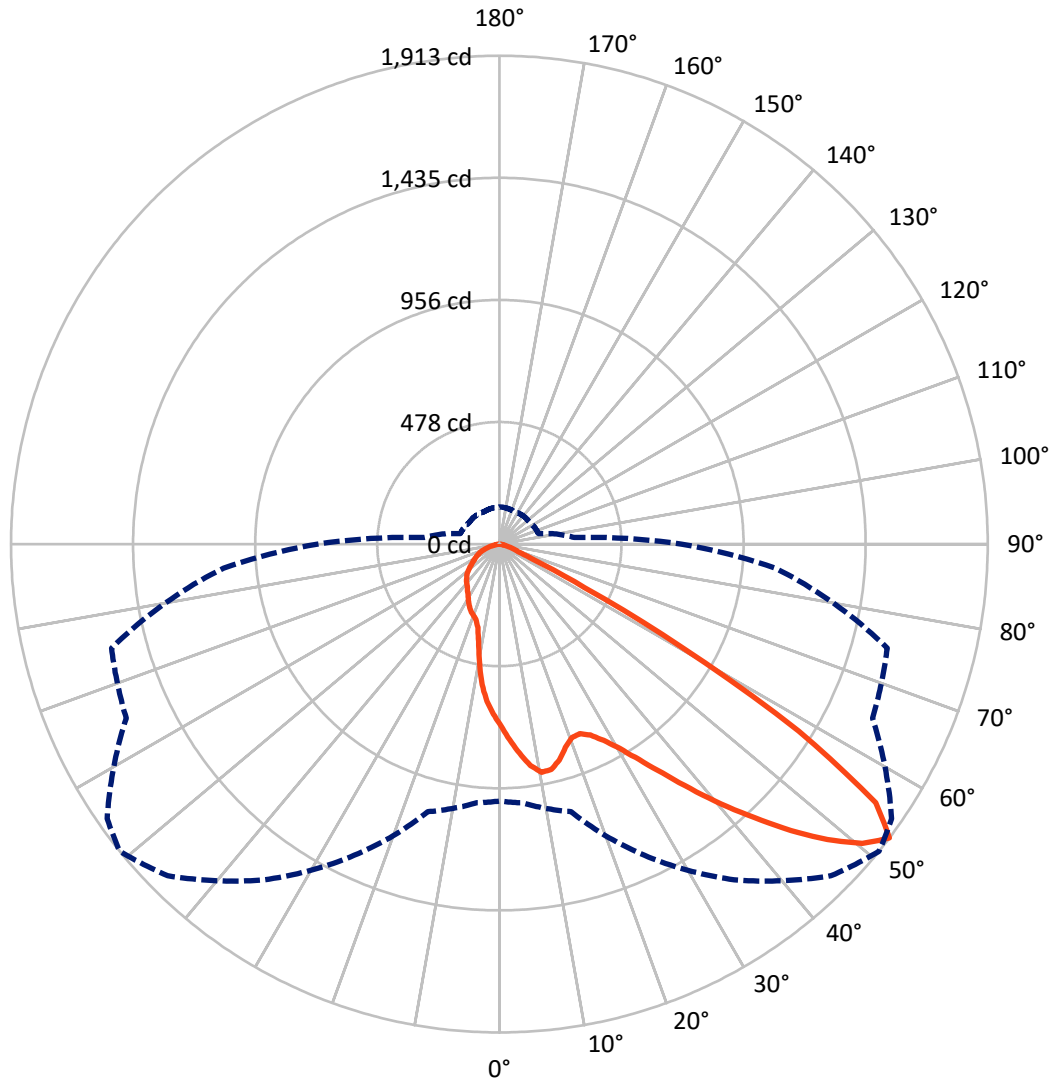
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

REPORT NUMBER: P629500
CATALOG NUMBER: GWS-SA1B-827-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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CATALOG NUMBER: GWS-SA1B-827-U-AFL-W-GRSWH

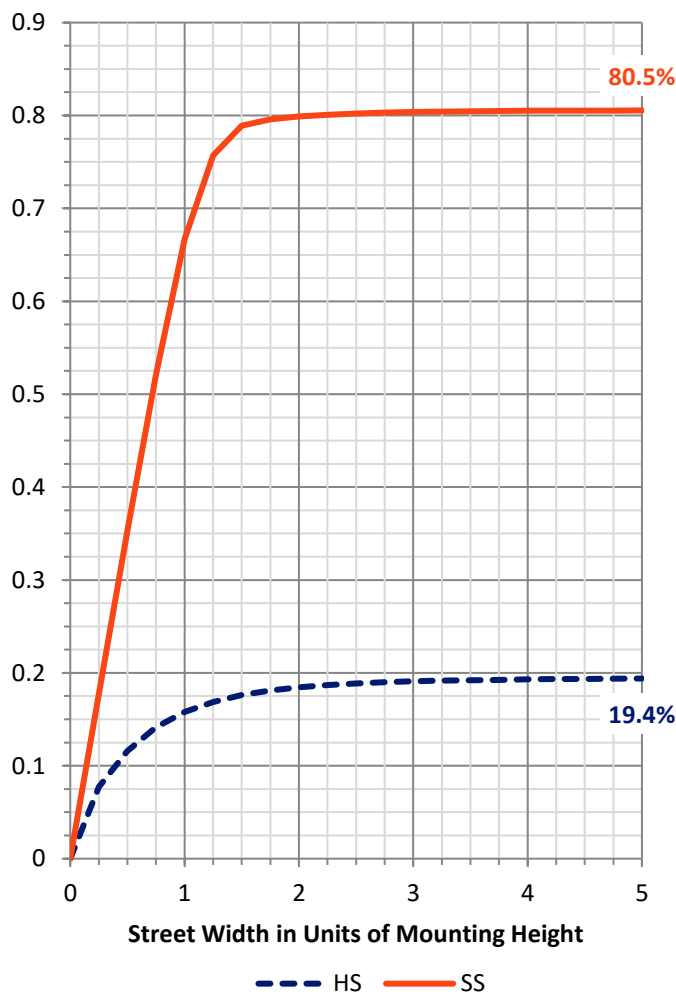
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	465.7	0.0	465.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	1924.5	0.0	1924.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	2390.2	0.0	2390.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	2.8
10°-20°	172.6	7.2
20°-30°	280.6	11.7
30°-40°	444.6	18.6
40°-50°	670.6	28.1
50°-60°	580.1	24.3
60°-70°	131.5	5.5
70°-80°	38.8	1.6
80°-90°	5.0	0.2
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°	2390.2	100.0
0°-180°	2390.2	100.0

Coefficient of Utilization



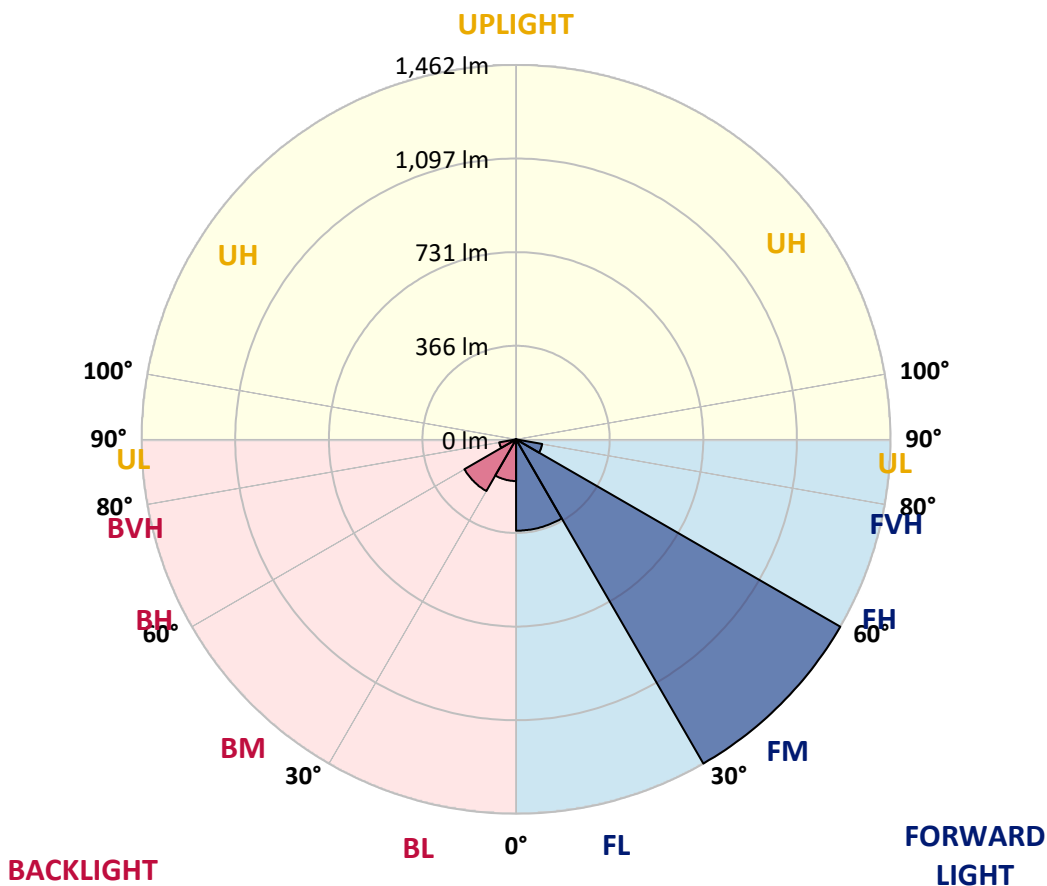
REPORT NUMBER: P629500

CATALOG NUMBER: GWS-SA1B-827-U-AFL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.7	14.9			
FM (30°-60°)	1462.4	61.2			
FH (60°-80°)	103.5	4.3			G0/660
FVH (80°-90°)	1.9	0.1			G0/10
BL (0°-30°)	162.8	6.8	B1/500		
BM (30°-60°)	233.0	9.7	B1/1000		
BH (60°-80°)	66.8	2.8	B0/110		G0/110
BVH (80°-90°)	3.1	0.1			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: P629500

CATALOG NUMBER: GWS-SA1B-827-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7
2.5°	793.1	797.6	790.6	788.0	783.6	776.1	767.4	764.9	746.2	734.0	720.2
5°	872.8	875.2	869.6	863.9	853.1	839.7	822.9	819.3	785.3	757.2	727.9
7.5°	890.5	889.6	894.5	897.7	896.4	891.1	876.2	869.2	828.6	784.0	740.8
10°	820.3	815.0	833.1	854.7	880.5	910.4	908.7	908.1	872.8	820.1	757.2
12.5°	727.2	724.5	739.3	766.3	815.2	881.3	906.0	925.3	912.6	854.5	775.5
15°	673.9	673.0	683.0	702.4	741.3	824.8	877.7	915.9	946.8	891.3	795.0
17.5°	664.3	664.8	668.2	679.4	707.3	776.1	837.3	890.5	973.5	931.7	819.3
20°	692.4	696.2	690.3	692.0	707.1	758.5	809.7	865.0	990.5	972.3	845.6
22.5°	754.9	753.6	740.8	733.2	733.4	769.3	806.7	853.1	1001.6	1011.8	869.4
25°	825.8	824.3	809.0	792.1	781.6	798.6	828.4	865.8	1011.6	1047.9	888.5
27.5°	909.4	904.7	887.7	866.2	842.8	850.1	870.3	900.0	1027.1	1083.4	901.1
30°	990.5	995.9	971.6	946.1	921.3	916.8	928.5	955.3	1058.6	1124.9	916.2
32.5°	1097.9	1096.0	1069.0	1035.8	1000.5	997.1	1006.3	1030.9	1115.3	1182.4	939.3
35°	1228.1	1228.4	1190.1	1145.2	1094.9	1085.8	1101.3	1125.1	1199.7	1260.2	975.7
37.5°	1363.3	1362.7	1329.3	1278.3	1209.7	1196.9	1214.7	1232.4	1305.3	1366.1	1032.4
40°	1458.1	1461.9	1446.2	1419.4	1354.4	1323.1	1338.7	1351.0	1420.2	1490.8	1107.0
42.5°	1511.9	1517.6	1521.0	1537.1	1502.9	1469.4	1463.8	1470.2	1522.7	1606.6	1177.1
45°	1523.5	1531.0	1555.8	1615.3	1628.5	1619.0	1600.5	1585.0	1599.2	1688.7	1223.0
47.5°	1472.7	1485.9	1538.8	1642.8	1720.1	1749.7	1729.2	1705.5	1643.4	1709.9	1218.2
50°	1271.3	1286.8	1406.0	1586.6	1733.1	1841.2	1843.0	1808.1	1638.1	1648.9	1158.9
52.5°	1006.5	1017.1	1085.3	1345.0	1605.3	1837.4	1912.9	1875.5	1612.6	1572.6	1084.7
55°	601.6	618.6	682.2	887.3	1250.5	1628.5	1789.4	1807.5	1600.2	1508.5	1034.1
57.5°	203.0	211.4	272.2	391.9	737.0	1192.4	1382.6	1456.2	1452.6	1410.7	935.3
60°	96.7	98.6	110.9	148.6	295.0	623.1	818.4	903.4	980.8	988.6	581.9
62.5°	73.7	74.8	81.0	89.1	118.6	262.5	375.1	440.1	470.1	403.4	211.9
65°	61.6	62.5	67.2	72.3	80.6	113.7	143.9	166.0	149.6	116.5	101.0
67.5°	51.4	52.1	55.7	61.2	66.9	76.1	79.9	82.2	86.1	96.7	92.9
70°	40.2	41.0	44.8	49.5	55.0	57.2	60.8	63.1	71.0	84.6	84.2
72.5°	31.0	31.9	34.0	37.0	41.6	43.8	47.8	50.4	55.0	65.9	70.5
75°	22.7	23.2	25.1	26.1	26.6	26.1	30.0	33.1	39.1	43.3	44.4
77.5°	9.3	10.4	10.0	10.0	11.9	14.4	16.4	18.3	22.5	24.9	25.1
80°	3.8	4.2	4.9	5.5	6.6	8.5	9.8	10.6	12.5	14.0	15.1
82.5°	2.3	2.5	2.8	3.0	3.8	4.9	5.7	6.2	7.7	9.3	9.8
85°	1.1	1.1	1.3	1.5	1.9	2.3	2.6	3.0	4.0	4.9	5.5
87.5°	0.2	0.2	0.2	0.4	0.6	0.8	0.9	1.1	1.3	1.5	1.9
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°	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7
2.5°	712.1	701.9	690.0	680.5	669.6	661.4	649.9	642.7	635.9	630.3	626.1
5°	712.8	695.6	670.9	649.0	626.3	604.8	582.7	564.7	548.7	535.3	534.1
7.5°	717.2	692.4	653.7	615.4	571.2	528.5	485.8	451.0	424.6	410.8	408.0
10°	724.5	692.0	636.1	574.9	499.6	430.8	380.2	353.8	338.5	333.0	331.1
12.5°	732.3	691.1	613.7	517.9	413.3	353.0	325.2	322.0	324.9	325.2	325.1
15°	741.7	690.5	585.3	451.0	350.2	316.9	318.8	325.6	332.2	333.7	333.7
17.5°	753.2	689.2	546.8	385.7	310.7	309.9	320.0	329.0	335.3	336.4	336.4
20°	765.3	685.8	499.4	332.4	294.6	305.6	316.4	323.4	327.7	329.2	329.4
22.5°	773.6	676.7	444.8	292.9	284.6	297.3	305.0	312.2	312.2	308.4	307.3
25°	775.3	657.3	385.7	265.9	272.7	284.4	292.4	288.2	280.5	277.5	277.3
27.5°	769.1	629.0	327.3	246.7	258.4	270.1	268.8	262.7	259.3	256.3	257.4
30°	761.5	595.0	276.7	230.8	241.8	253.3	248.7	246.7	244.2	240.8	241.6
32.5°	756.4	557.0	237.8	218.5	230.6	232.5	235.7	235.5	233.3	226.8	226.5
35°	758.0	518.7	211.7	208.5	221.4	220.6	226.7	225.5	209.8	201.0	200.4
37.5°	770.0	481.8	196.4	200.6	206.6	211.4	216.6	203.0	197.6	191.9	192.3
40°	793.1	447.6	188.1	196.2	197.8	204.7	192.5	192.3	189.8	184.7	184.5
42.5°	819.2	418.7	182.5	194.2	192.1	193.4	180.4	181.9	181.7	178.5	177.5
45°	835.0	392.1	177.9	186.4	187.0	173.8	169.8	171.5	172.4	170.7	170.6
47.5°	818.6	361.5	173.2	174.5	179.4	164.9	160.0	160.2	161.9	162.1	161.3
50°	772.5	327.3	167.5	164.3	161.1	155.6	151.1	150.2	151.9	153.6	154.1
52.5°	713.0	294.6	158.1	153.2	145.6	145.6	143.5	140.5	142.8	145.1	145.8
55°	669.4	270.5	144.7	139.2	130.9	133.7	133.3	130.7	133.7	135.4	136.0
57.5°	580.0	217.4	127.3	125.6	118.6	122.0	122.8	119.4	117.9	118.2	118.8
60°	344.3	140.3	114.8	114.6	108.4	112.4	114.6	111.2	106.7	107.3	108.0
62.5°	154.5	107.3	99.2	98.4	98.2	103.3	105.8	102.6	96.1	96.7	97.5
65°	97.3	92.7	86.1	86.1	89.1	93.5	95.4	92.7	85.4	84.4	85.2
67.5°	90.3	86.3	79.5	78.2	79.7	83.3	83.5	78.4	74.0	73.3	73.3
70°	81.0	78.0	71.4	68.8	68.2	68.0	67.4	66.1	63.3	62.5	62.9
72.5°	67.1	65.0	60.8	58.0	56.5	56.3	54.0	52.9	50.4	50.1	49.9
75°	44.4	45.0	45.0	44.6	43.3	42.7	40.2	39.1	36.3	35.1	34.9
77.5°	26.3	26.8	27.6	27.8	27.6	27.6	25.3	24.0	21.2	19.6	19.3
80°	16.1	16.4	16.8	17.4	16.6	16.1	14.0	12.7	11.3	10.4	10.2
82.5°	10.4	10.8	11.0	11.3	11.0	10.2	8.5	7.7	6.8	6.0	5.9
85°	5.9	6.0	6.4	6.4	5.9	5.3	4.3	3.8	3.2	2.8	2.8
87.5°	2.1	2.1	2.1	2.3	1.9	1.7	1.1	0.8	0.6	0.6	0.6
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)