

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: P629311

Luminaire Tested: GWS-SA1B-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-735-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2850.8 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

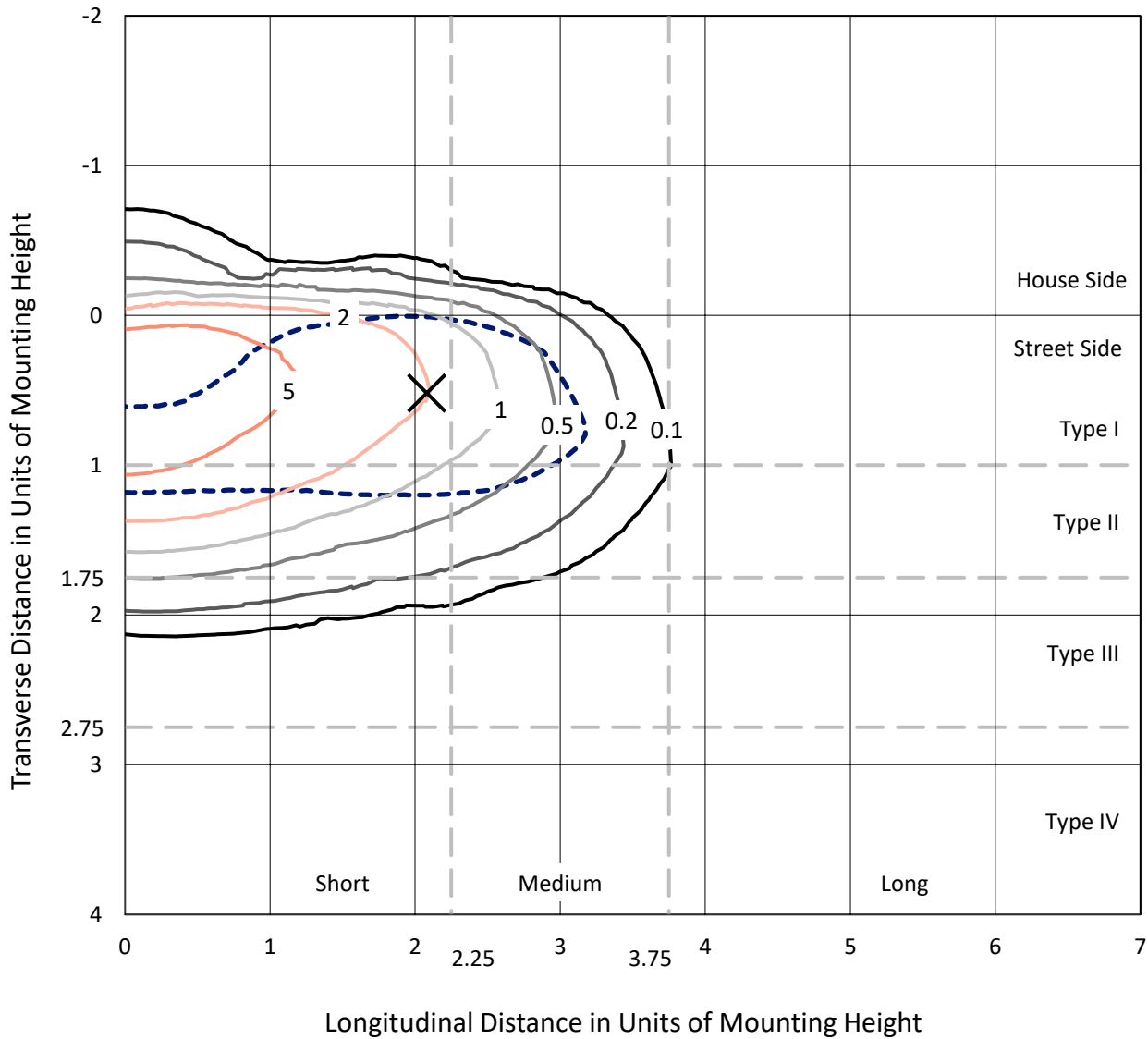
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

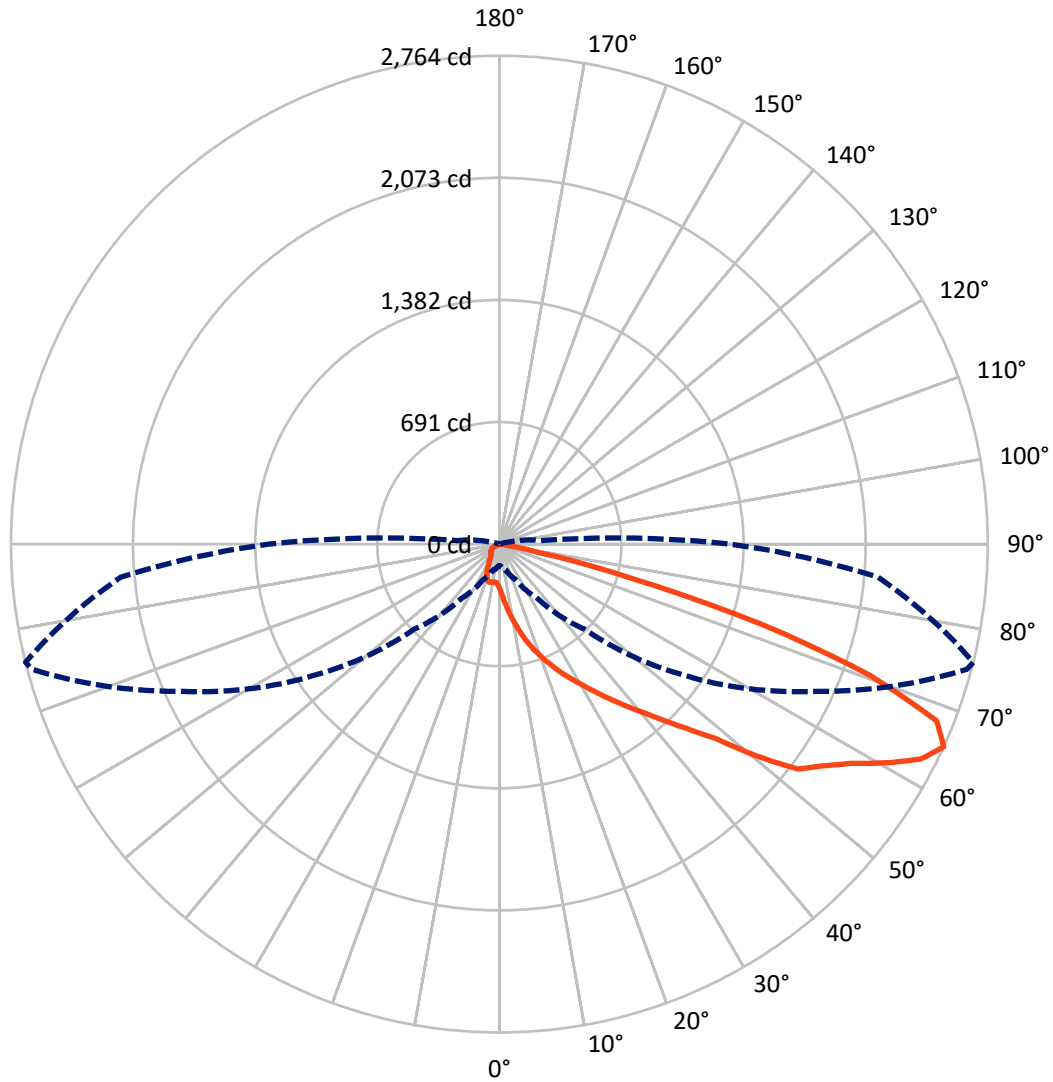
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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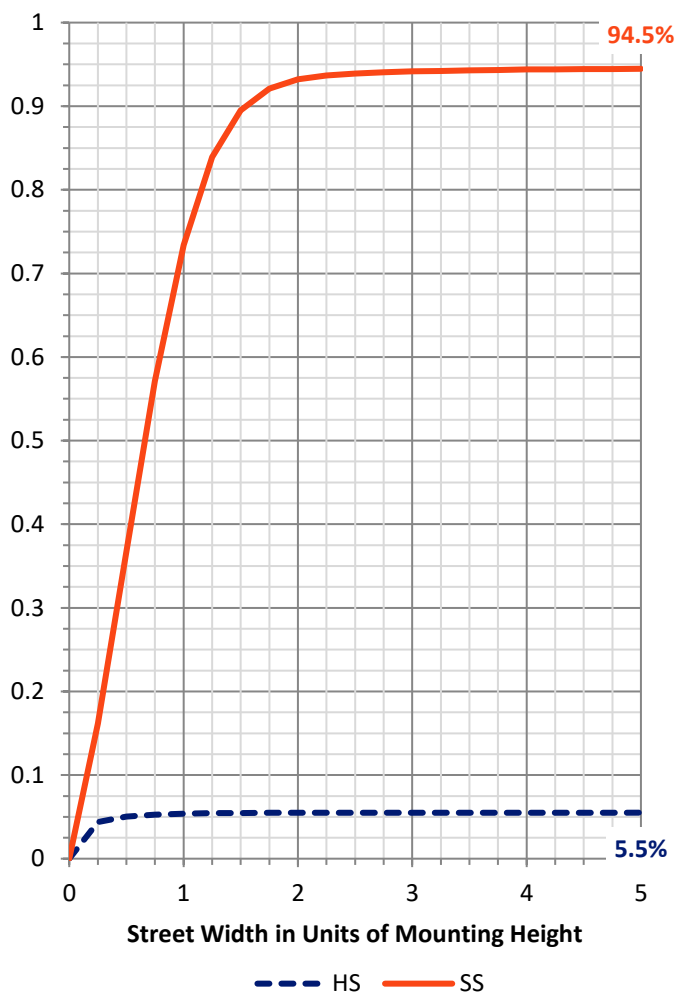
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	157.6	0.0	157.6
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	2693.2	0.0	2693.2
	% Fixture	94.5	0.0	94.5
Total	Lumens	2850.8	0.0	2850.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.7	1.1
10°-20°	116.5	4.1
20°-30°	237.7	8.3
30°-40°	422.8	14.8
40°-50°	624.9	21.9
50°-60°	715.5	25.1
60°-70°	545.9	19.1
70°-80°	152.9	5.4
80°-90°	3.9	0.1
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°	2850.8	100.0
0°-180°	2850.8	100.0

Coefficient of Utilization



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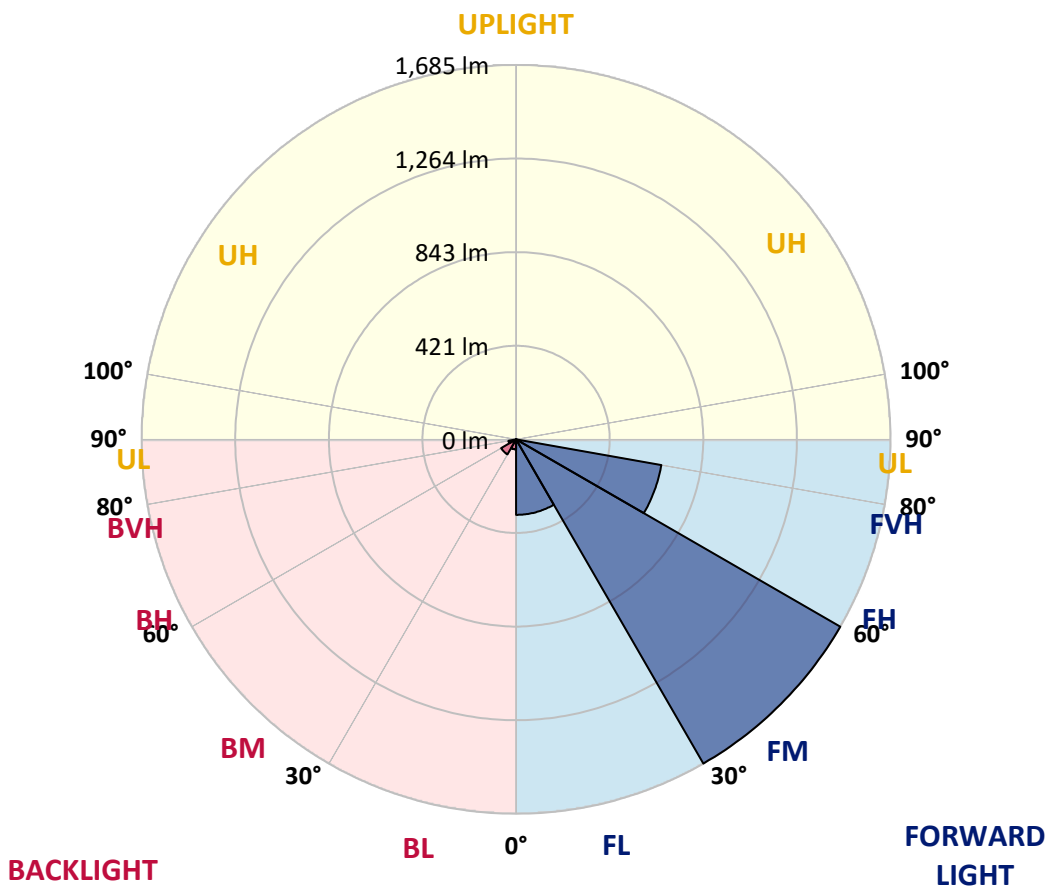
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.9	11.9			
FM (30°-60°)	1685.4	59.1			
FH (60°-80°)	664.2	23.3			G1/1800
FVH (80°-90°)	3.6	0.1			G0/10
BL (0°-30°)	45.0	1.6	B0/110		
BM (30°-60°)	77.8	2.7	B0/220		
BH (60°-80°)	34.7	1.2	B0/110		G0/110
BVH (80°-90°)	0.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	252.4	252.4	252.4	252.4	252.4	252.4	252.4	252.4	252.4	252.4	252.4
2.5°	389.0	394.8	390.3	382.7	368.0	353.8	335.5	310.4	290.4	287.9	269.1
5°	525.3	524.8	514.9	505.1	489.6	465.3	428.5	381.9	337.0	333.2	291.2
7.5°	606.4	607.2	601.6	594.0	578.8	553.7	515.4	459.2	393.6	385.9	321.3
10°	674.6	674.3	670.3	666.7	653.0	636.3	595.3	533.4	454.4	442.5	355.0
12.5°	725.8	727.5	729.6	733.1	727.3	710.8	672.1	604.6	515.9	502.8	393.6
15°	766.3	766.8	774.4	788.1	792.9	784.3	749.1	673.6	576.8	565.4	437.9
17.5°	778.5	779.5	792.4	817.5	842.9	847.7	821.1	743.0	636.6	624.4	481.0
20°	804.1	806.4	816.0	838.0	870.0	895.8	885.4	813.2	696.4	680.4	525.1
22.5°	884.7	885.9	882.6	885.4	901.9	931.8	938.1	881.1	757.7	740.7	572.7
25°	1023.3	1023.8	1000.7	978.9	966.5	972.1	986.0	943.7	818.5	801.8	617.1
27.5°	1167.2	1169.0	1141.4	1104.4	1060.0	1034.7	1030.6	1001.0	879.9	861.4	660.9
30°	1302.8	1302.8	1273.7	1228.5	1169.2	1119.8	1090.7	1058.8	945.5	925.2	705.8
32.5°	1424.7	1423.7	1386.4	1337.5	1279.0	1224.7	1163.4	1119.1	1018.5	995.9	757.5
35°	1525.3	1522.8	1480.4	1433.6	1371.0	1330.7	1262.3	1183.9	1097.5	1075.0	810.7
37.5°	1601.3	1598.5	1559.8	1510.1	1452.1	1426.0	1368.7	1261.7	1180.9	1160.4	869.7
40°	1642.6	1637.1	1610.2	1573.2	1524.5	1501.7	1477.9	1358.3	1279.0	1253.4	939.4
42.5°	1654.8	1648.2	1630.5	1613.2	1583.8	1565.8	1591.4	1467.3	1386.7	1364.6	1019.0
45°	1618.8	1615.0	1613.5	1625.9	1631.2	1636.3	1699.4	1587.9	1505.5	1488.8	1119.1
47.5°	1532.1	1531.1	1544.6	1596.3	1652.5	1706.0	1816.7	1736.6	1659.6	1641.6	1259.0
50°	1372.0	1382.4	1419.9	1510.6	1623.1	1745.5	1926.4	1942.9	1909.0	1882.6	1441.4
52.5°	1121.6	1141.6	1225.8	1363.6	1525.3	1734.4	1977.1	2108.1	2142.9	2115.5	1572.2
55°	880.1	898.9	973.9	1148.7	1364.4	1649.5	1979.4	2165.2	2240.9	2215.6	1660.6
57.5°	655.6	672.8	741.0	908.2	1145.4	1482.5	1925.2	2196.8	2357.3	2341.0	1800.2
60°	428.5	445.5	507.1	653.3	888.5	1239.2	1791.6	2190.3	2515.6	2514.1	1971.8
62.5°	237.7	251.1	295.7	409.8	620.1	959.7	1581.8	2124.1	2669.0	2678.6	2113.2
65°	121.6	130.3	157.4	225.3	375.3	680.4	1305.8	1972.6	2739.9	2764.2	2150.5
67.5°	79.6	82.4	88.9	117.1	201.0	428.0	982.7	1729.5	2640.1	2668.4	2025.5
70°	64.6	66.9	70.7	78.1	103.6	227.3	645.4	1381.4	2206.0	2225.2	1613.0
72.5°	47.4	50.4	57.8	62.6	74.8	124.7	335.8	906.7	1514.9	1548.9	1013.7
75°	35.0	36.7	42.8	49.4	61.1	78.8	128.5	476.7	782.3	762.5	425.7
77.5°	21.0	22.3	27.4	31.7	43.6	49.2	44.9	176.1	238.0	223.8	102.9
80°	10.4	11.7	18.0	23.8	27.9	19.8	18.8	49.2	53.0	53.0	25.8
82.5°	3.5	4.6	9.6	15.7	13.7	7.6	8.9	12.7	14.2	15.0	7.6
85°	0.0	0.0	2.3	4.6	2.0	1.0	2.3	2.8	3.5	3.8	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	252.4	252.4	252.4	252.4	252.4	252.4	252.4	252.4	252.4	252.4	252.4
2.5°	259.0	247.1	229.1	212.9	200.5	188.8	179.9	172.8	171.6	167.5	168.0
5°	270.6	249.1	215.9	190.3	172.3	160.2	150.0	142.4	139.1	135.8	133.3
7.5°	288.6	257.5	210.8	179.7	158.6	139.9	124.2	111.5	105.4	101.6	99.1
10°	310.7	269.1	211.1	173.3	142.2	113.5	92.0	78.1	71.5	69.4	69.2
12.5°	337.0	283.8	213.1	162.9	118.3	84.4	68.2	61.8	59.8	58.0	58.0
15°	364.9	300.3	213.1	143.9	90.2	65.9	59.0	55.0	52.5	51.4	50.9
17.5°	394.3	315.8	208.1	117.8	69.2	58.0	52.5	48.7	46.6	45.1	44.6
20°	425.7	330.5	195.4	90.2	59.3	51.9	46.6	42.8	40.8	39.3	39.3
22.5°	457.7	344.1	174.9	69.4	52.5	46.1	41.1	37.5	35.5	34.0	34.0
25°	487.3	353.3	148.5	57.3	47.4	41.1	36.5	32.9	30.7	29.6	29.1
27.5°	514.9	359.1	119.4	50.4	42.6	36.7	31.9	28.6	26.9	26.1	25.6
30°	543.6	360.6	91.2	45.9	38.5	32.4	27.9	25.3	23.8	22.8	22.8
32.5°	571.4	358.8	69.7	42.1	35.0	28.6	24.8	22.6	21.3	20.5	20.3
35°	599.8	350.7	56.5	38.8	31.4	25.1	22.0	20.3	19.5	18.5	18.5
37.5°	630.7	339.8	49.2	35.5	27.9	22.6	19.8	18.5	17.5	16.7	16.5
40°	669.3	327.2	45.1	32.7	24.6	20.3	17.7	16.5	15.7	15.0	14.7
42.5°	714.9	314.7	43.1	29.6	22.0	18.0	16.0	14.4	13.7	12.7	12.4
45°	779.5	312.0	40.8	26.4	19.8	16.2	13.9	12.4	11.4	10.6	10.4
47.5°	883.4	319.8	37.0	22.8	17.5	14.2	11.9	10.6	9.4	8.6	8.1
50°	986.5	317.8	33.2	19.8	15.5	12.2	10.1	8.9	7.6	6.8	6.6
52.5°	1042.8	308.2	29.6	17.5	13.4	10.4	8.6	7.1	6.3	5.6	5.3
55°	1093.7	304.3	26.1	15.2	11.4	9.1	7.1	5.8	5.3	4.6	4.3
57.5°	1193.6	313.2	23.1	13.2	9.9	7.9	6.1	4.8	4.3	3.5	3.3
60°	1298.0	314.2	19.8	11.4	8.6	6.6	4.8	3.8	3.3	2.5	2.3
62.5°	1352.5	288.6	16.2	9.6	7.1	5.6	4.1	3.0	2.5	1.5	1.5
65°	1306.9	233.4	13.7	7.9	5.6	4.3	3.0	2.3	1.5	0.8	0.3
67.5°	1156.6	166.0	11.4	6.3	4.1	3.0	2.3	1.5	0.3	0.0	0.0
70°	846.9	94.8	8.9	4.6	3.0	2.0	1.5	0.8	0.0	0.0	0.0
72.5°	520.5	50.7	6.6	3.0	2.3	1.5	1.3	0.5	0.0	0.0	0.0
75°	197.4	24.3	4.1	2.0	1.8	1.3	0.8	0.3	0.0	0.0	0.0
77.5°	53.5	11.9	2.3	1.5	1.3	0.8	0.5	0.0	0.0	0.0	0.0
80°	13.9	5.6	1.5	1.0	0.8	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	4.8	2.5	0.8	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0
85°	2.0	1.0	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.3	0.3	0.3	0.3	0.0	0.0	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)