

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P451302

Luminaire Tested: **GALN-SA2A-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6011 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

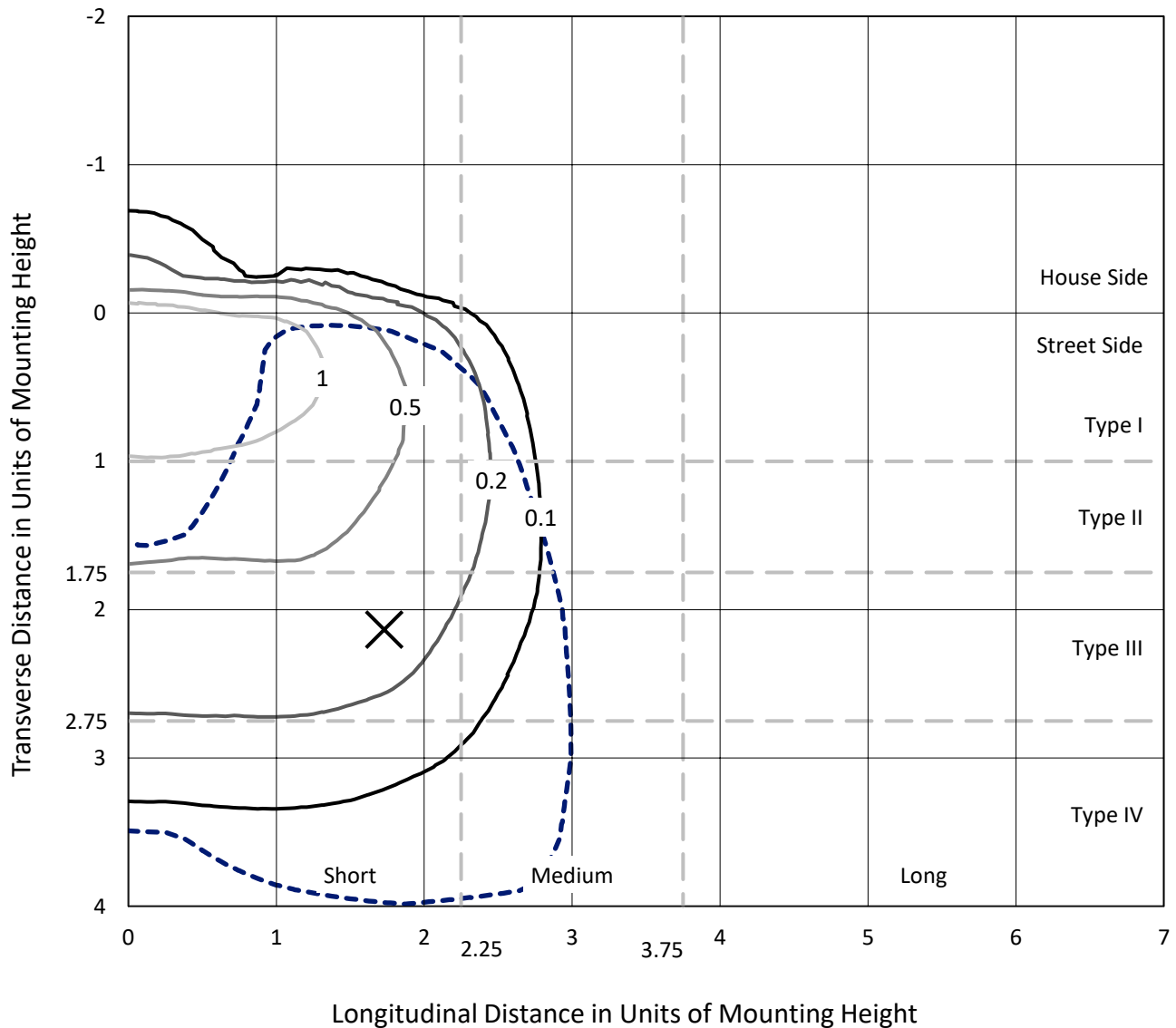


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Iso-Footcandle Lines of Horizontal Illumination

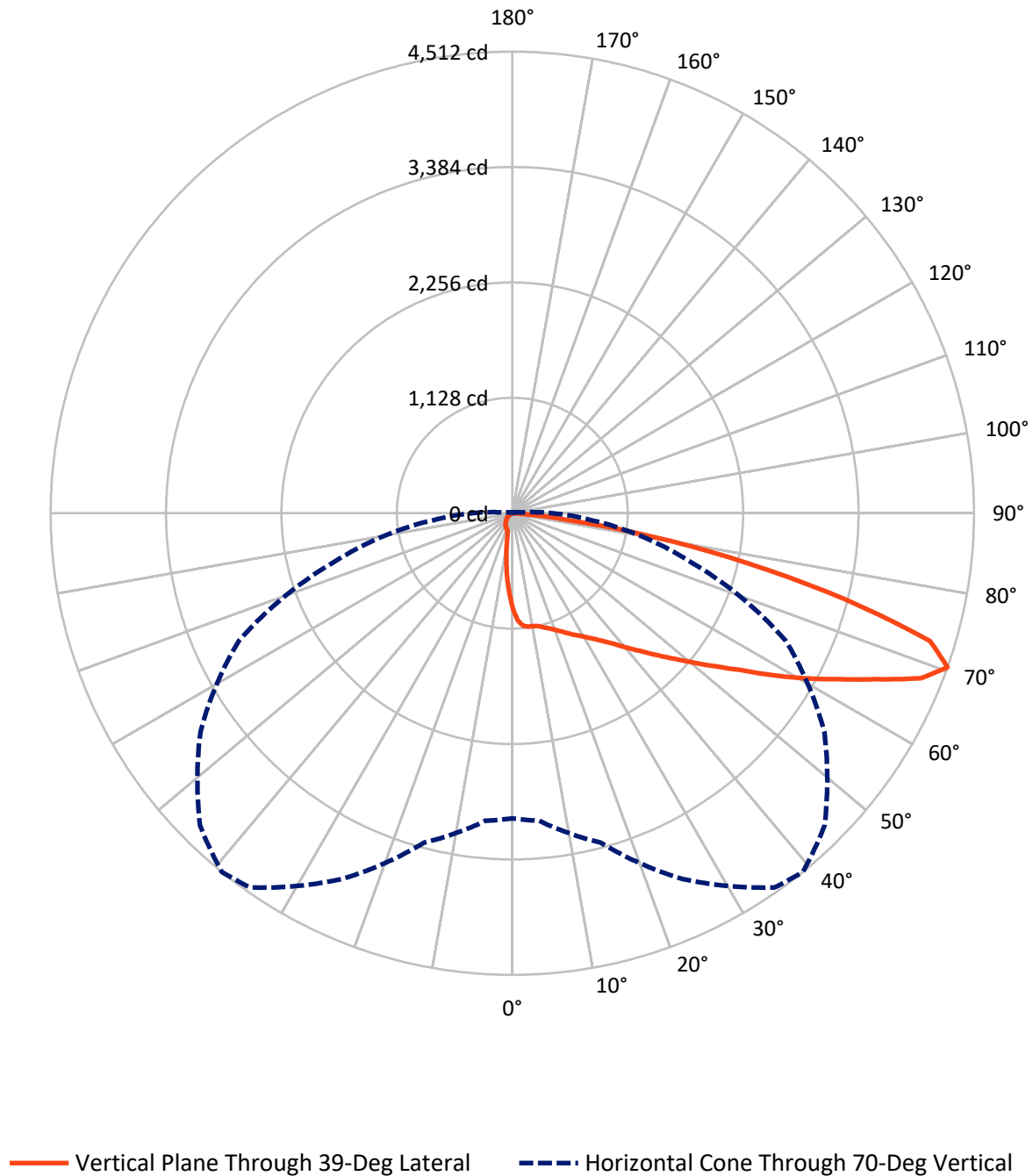
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	391.9	0.0	391.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	5619.1	0.0	5619.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	6011.0	0.0	6011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.3
10°-20°	207.9	3.5
20°-30°	348.3	5.8
30°-40°	540.1	9.0
40°-50°	856.0	14.2
50°-60°	1254.7	20.9
60°-70°	1608.2	26.8
70°-80°	1010.5	16.8
80°-90°	105.3	1.8
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°	6011.0	100.0
0°-180°	6011.0	100.0

Coefficient of Utilization



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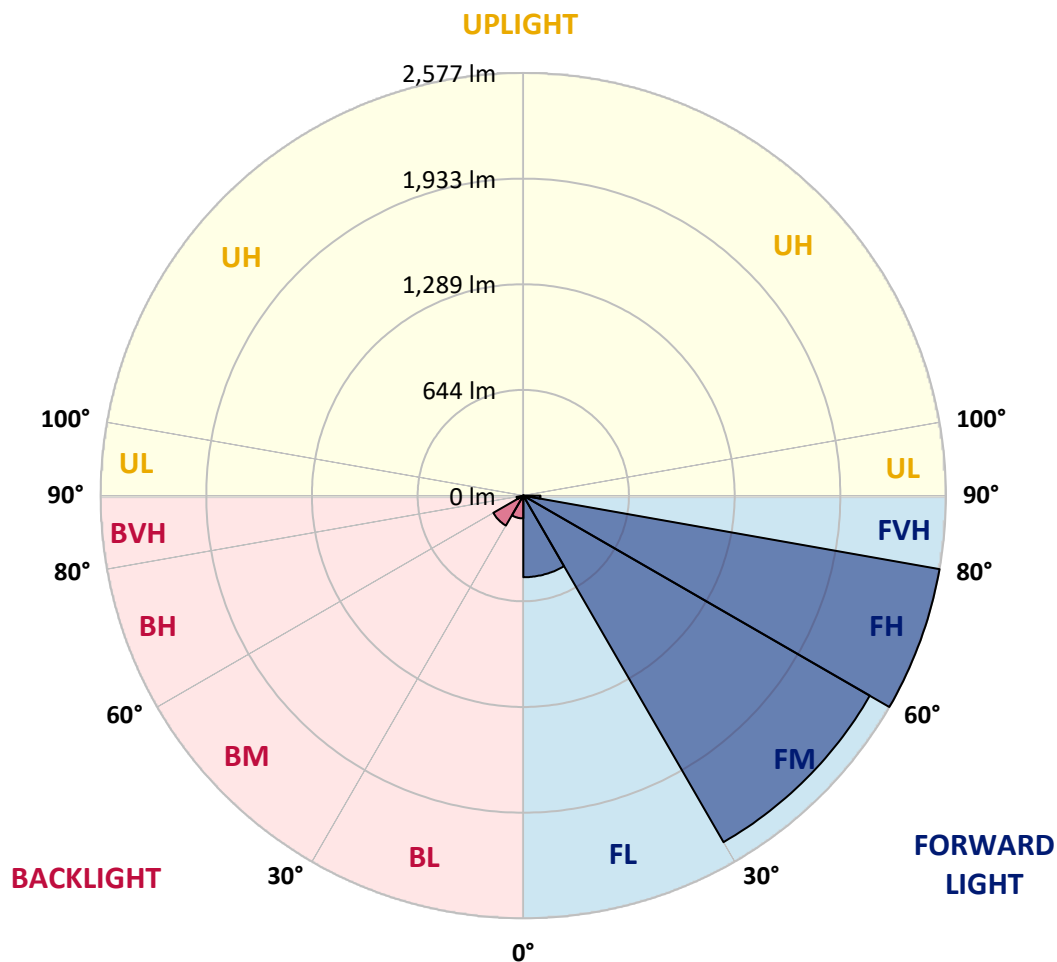
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	497.4	8.3			
FM	(30°-60°)	2439.9	40.6			
FH	(60°-80°)	2577.3	42.9			G2/5000
FVH	(80°-90°)	104.5	1.7			G2/225
BL	(0°-30°)	138.8	2.3	B1/500		
BM	(30°-60°)	210.9	3.5	B0/220		
BH	(60°-80°)	41.4	0.7	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: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9
2.5°	1083.7	1080.1	1075.3	1069.6	1053.4	1050.6	1040.9	1020.3	995.7	975.5	947.6
5°	1135.0	1137.1	1133.4	1123.3	1111.6	1104.7	1092.6	1060.7	1028.8	988.0	942.4
7.5°	1146.8	1150.8	1146.3	1136.7	1125.3	1118.1	1108.4	1080.9	1043.8	997.3	934.7
10°	1145.5	1150.4	1147.6	1138.7	1129.4	1122.5	1112.0	1090.2	1060.3	1011.4	937.1
12.5°	1143.5	1150.0	1149.6	1145.1	1137.5	1132.2	1125.7	1106.4	1078.5	1032.0	950.4
15°	1137.9	1145.9	1153.2	1156.9	1157.3	1157.3	1149.2	1128.6	1101.9	1059.1	967.8
17.5°	1140.3	1149.6	1167.8	1178.3	1185.5	1184.7	1176.2	1154.0	1124.5	1087.0	986.0
20°	1155.2	1167.8	1193.2	1214.2	1221.5	1219.1	1207.7	1181.9	1148.4	1110.8	1003.8
22.5°	1192.0	1203.3	1235.2	1259.9	1265.1	1258.6	1242.5	1207.3	1177.0	1136.7	1025.2
25°	1246.9	1260.3	1289.7	1308.3	1308.3	1304.7	1282.1	1240.9	1209.4	1172.6	1053.0
27.5°	1313.6	1324.9	1354.0	1370.5	1360.8	1350.3	1327.7	1278.0	1247.7	1217.8	1086.6
30°	1381.0	1388.3	1419.0	1426.3	1416.2	1402.8	1378.6	1328.9	1302.3	1279.2	1135.0
32.5°	1444.9	1460.6	1486.1	1484.4	1470.7	1464.2	1442.0	1389.1	1374.2	1371.7	1202.9
35°	1508.7	1520.8	1543.4	1549.1	1536.9	1535.7	1519.6	1480.4	1480.8	1496.6	1308.7
37.5°	1563.6	1574.5	1601.2	1613.7	1616.1	1622.2	1615.7	1589.9	1626.6	1669.8	1448.9
40°	1609.7	1625.0	1658.9	1680.7	1705.8	1728.0	1729.2	1734.9	1808.8	1883.1	1631.9
42.5°	1645.6	1667.0	1716.3	1756.7	1814.0	1842.3	1864.9	1896.0	2020.5	2131.5	1847.6
45°	1692.5	1717.1	1778.5	1841.9	1931.6	1978.0	2009.5	2092.8	2269.3	2420.7	2068.9
47.5°	1770.0	1782.9	1845.5	1938.0	2056.0	2122.2	2183.6	2309.7	2536.3	2672.0	2253.1
50°	1869.8	1878.3	1925.5	2054.0	2206.7	2293.9	2405.8	2554.0	2813.4	2880.4	2357.3
52.5°	1980.1	1982.9	2018.4	2181.6	2375.5	2485.4	2610.6	2793.6	3039.2	3029.1	2426.4
55°	2108.1	2104.1	2134.4	2320.2	2575.4	2701.1	2846.9	3038.8	3235.1	3134.5	2466.0
57.5°	2254.7	2243.8	2273.3	2504.0	2831.5	2981.8	3130.0	3250.4	3386.9	3222.9	2485.0
60°	2408.2	2386.4	2421.6	2710.4	3133.3	3275.9	3399.1	3431.4	3546.9	3293.2	2452.3
62.5°	2530.6	2531.0	2596.5	2930.1	3443.5	3568.3	3633.7	3662.8	3684.6	3277.9	2280.2
65°	2721.7	2728.1	2832.8	3235.1	3802.6	3910.8	3955.7	3861.2	3690.7	3087.2	2021.7
67.5°	2918.8	2939.4	3130.9	3655.1	4217.4	4304.7	4246.9	3899.5	3525.9	2652.2	1532.9
70°	2983.0	3016.9	3332.4	3944.4	4466.2	4511.5	4316.0	3720.6	2947.5	1773.2	771.5
72.5°	2733.4	2788.3	3216.5	3838.9	4307.5	4268.3	3861.6	3120.3	1873.8	673.3	235.5
75°	1927.5	1951.8	2673.2	3184.6	3464.5	3353.4	2937.4	2011.6	770.7	189.0	80.8
77.5°	995.3	983.6	1589.9	2113.0	2470.8	2355.7	1923.5	1041.3	292.0	78.8	50.1
80°	514.6	523.1	687.9	1107.2	1508.3	1387.9	1025.6	482.7	155.5	43.6	38.4
82.5°	288.4	270.6	395.4	483.5	705.3	553.0	393.4	341.7	67.9	26.3	36.4
85°	52.5	54.9	216.9	261.3	244.8	155.5	126.8	228.2	19.8	14.5	25.4
87.5°	0.8	0.8	42.0	75.1	47.7	21.8	40.0	32.7	4.0	5.7	4.4
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°	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9
2.5°	933.5	918.1	889.5	861.2	825.2	795.7	775.9	755.3	734.3	736.0	740.8
5°	917.3	890.7	834.1	774.3	717.0	665.3	614.4	568.7	550.2	533.2	534.0
7.5°	901.2	863.6	780.8	687.1	600.2	512.2	448.4	395.9	368.0	347.0	340.9
10°	893.9	844.2	731.9	603.1	479.9	383.7	301.7	258.9	225.8	215.3	218.1
12.5°	897.1	834.5	687.9	527.1	380.5	267.4	210.0	188.2	181.0	179.7	178.9
15°	903.2	827.6	644.7	443.1	279.5	198.7	176.5	172.5	171.7	170.9	171.3
17.5°	911.3	821.6	598.6	364.3	214.5	173.7	167.2	165.2	164.8	164.8	164.8
20°	919.3	814.7	547.3	294.1	178.9	164.0	160.0	158.7	158.3	158.3	157.9
22.5°	928.6	808.7	495.2	231.0	164.8	157.1	153.5	152.7	152.3	151.9	151.9
25°	942.0	801.0	439.9	189.0	155.9	150.7	147.0	146.2	145.8	144.2	144.6
27.5°	959.7	795.3	382.9	163.2	147.8	142.6	140.2	139.0	138.1	136.9	137.3
30°	984.0	790.5	322.3	149.0	138.5	134.1	131.7	130.9	130.1	128.9	128.9
32.5°	1026.0	792.5	258.5	137.7	130.1	124.8	122.4	121.6	120.8	119.6	119.6
35°	1089.0	804.2	206.8	128.0	120.0	114.7	112.3	112.3	111.1	109.5	109.1
37.5°	1192.0	834.1	166.0	118.8	110.3	105.4	102.6	101.8	100.6	98.2	97.8
40°	1313.6	880.6	139.8	109.5	101.4	96.5	94.1	91.7	88.5	86.0	85.6
42.5°	1466.3	928.2	121.2	100.2	92.9	88.5	85.6	81.6	76.7	73.5	73.1
45°	1625.4	971.9	108.7	91.7	84.8	81.2	78.0	71.5	65.4	61.4	61.0
47.5°	1744.2	979.9	98.6	83.6	78.0	74.3	69.9	61.8	53.7	50.1	48.9
50°	1800.3	940.7	88.1	75.5	71.1	67.1	61.4	52.1	43.2	38.8	38.0
52.5°	1820.1	872.9	79.6	68.3	64.2	59.4	52.5	42.0	33.9	29.5	29.1
55°	1812.0	787.3	71.9	61.4	56.1	50.5	43.6	33.5	25.0	21.4	20.6
57.5°	1769.6	678.2	64.2	54.5	48.1	42.4	34.7	25.0	17.0	13.7	13.3
60°	1655.3	529.6	56.6	46.9	40.8	34.7	27.5	17.8	10.5	7.7	7.7
62.5°	1462.2	393.0	49.3	39.2	34.3	27.9	19.4	11.3	5.7	4.0	3.6
65°	1221.9	290.0	41.2	33.1	28.7	21.8	13.7	6.9	2.8	1.2	0.8
67.5°	852.7	178.9	34.3	27.1	23.4	15.8	8.5	2.8	1.2	0.0	0.0
70°	387.4	85.2	26.3	20.6	17.8	11.3	4.4	1.6	0.8	0.0	0.0
72.5°	120.4	44.8	18.6	14.9	12.1	7.3	2.4	1.2	0.8	0.0	0.0
75°	55.7	28.7	11.7	8.1	6.9	3.6	1.6	0.8	0.4	0.0	0.0
77.5°	41.6	22.2	6.9	4.4	3.6	2.4	1.2	0.8	0.4	0.0	0.0
80°	36.4	11.3	4.0	2.8	2.0	1.6	0.8	0.4	0.0	0.0	0.0
82.5°	32.7	5.7	2.4	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0
85°	17.8	3.2	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.2	0.8	0.8	0.4	0.4	0.4	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)