

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: P458886

Luminaire Tested: **GALN-SA4A-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12135 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

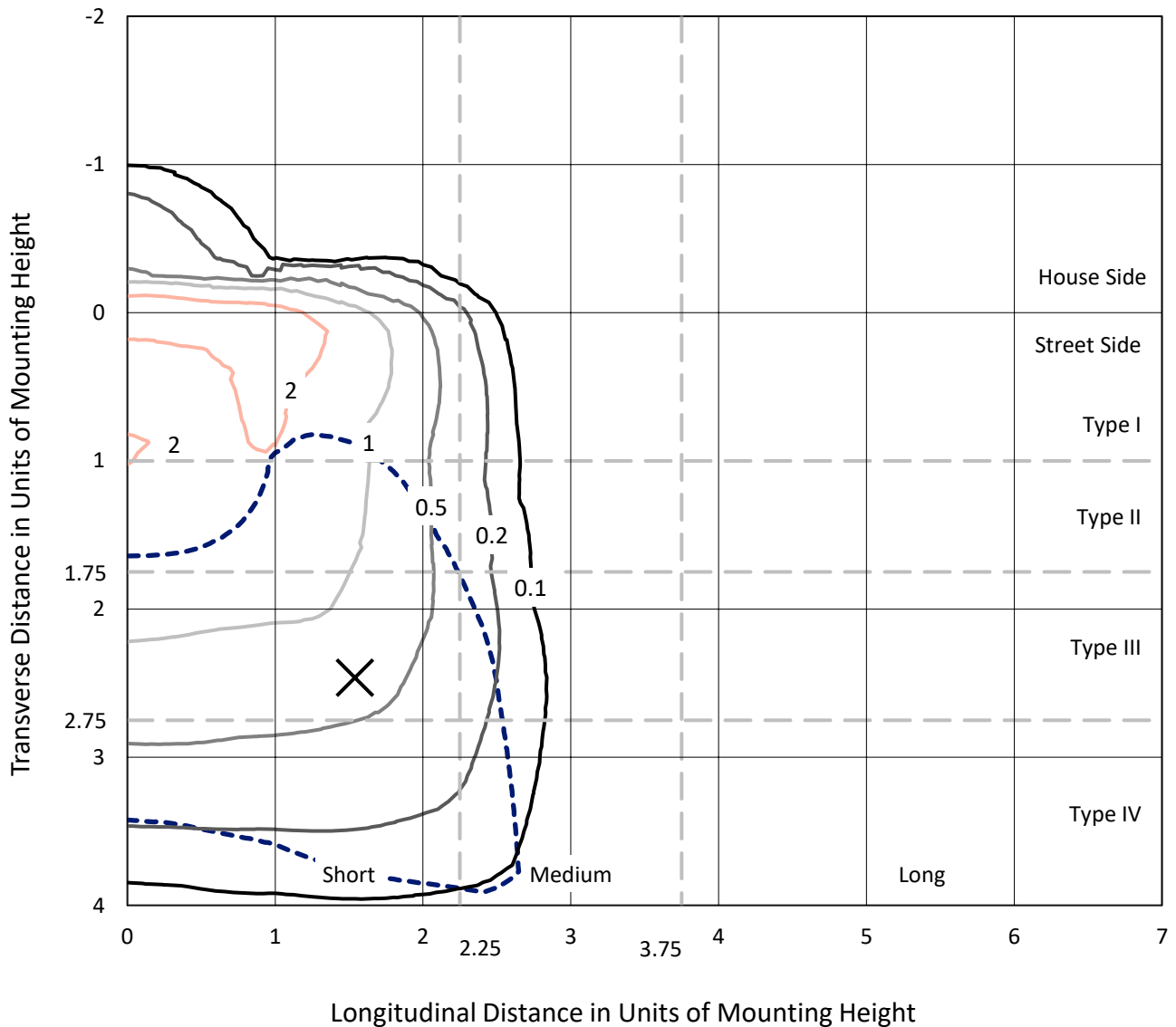
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

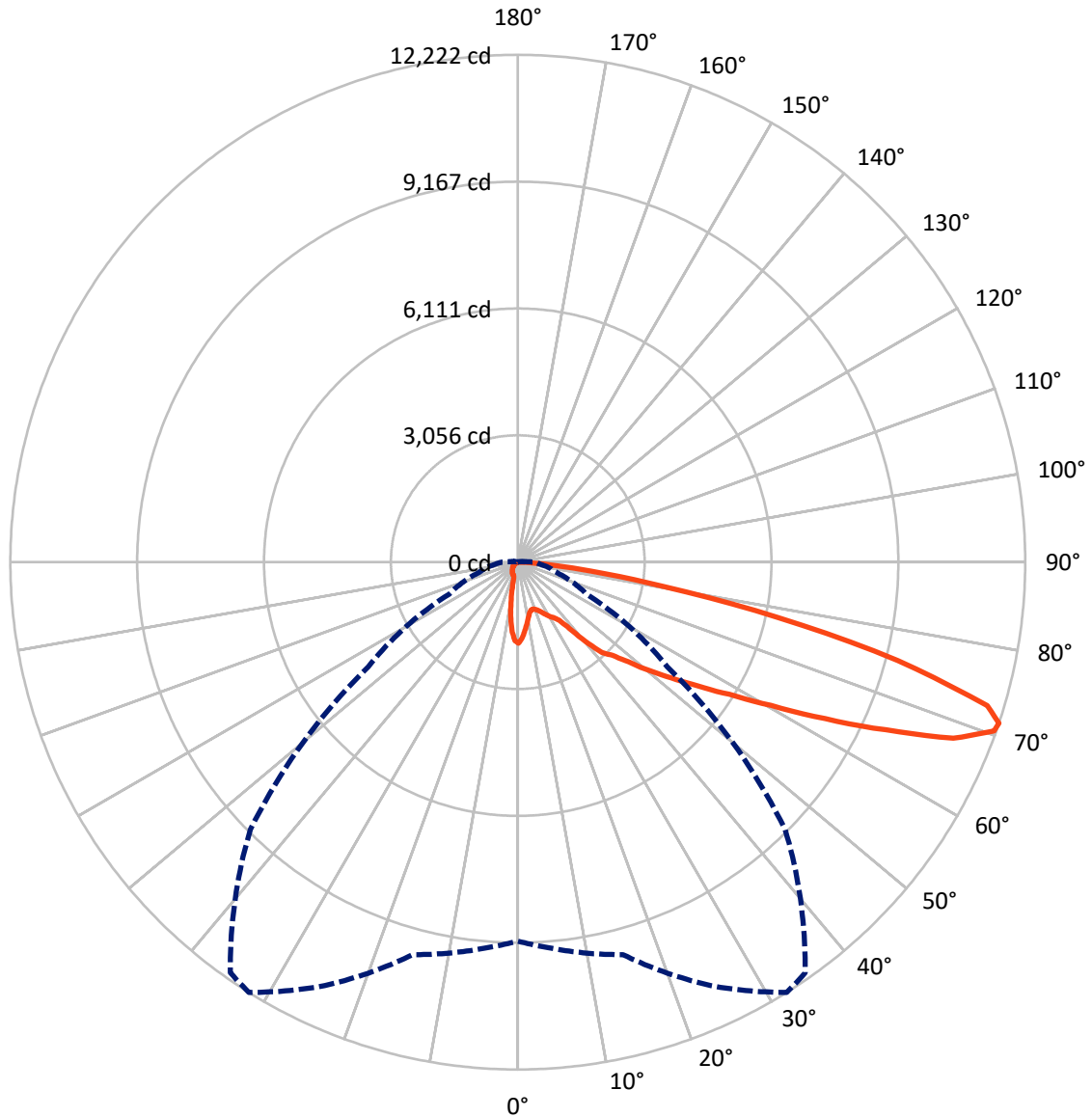
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1016.4	0.0	1016.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11118.6	0.0	11118.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	12135.0	0.0	12135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	1.3
10°-20°	344.4	2.8
20°-30°	535.8	4.4
30°-40°	892.6	7.4
40°-50°	1660.4	13.7
50°-60°	2665.8	22.0
60°-70°	3585.6	29.5
70°-80°	2127.4	17.5
80°-90°	164.4	1.4
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°	12135.0	100.0
0°-180°	12135.0	100.0

Coefficient of Utilization



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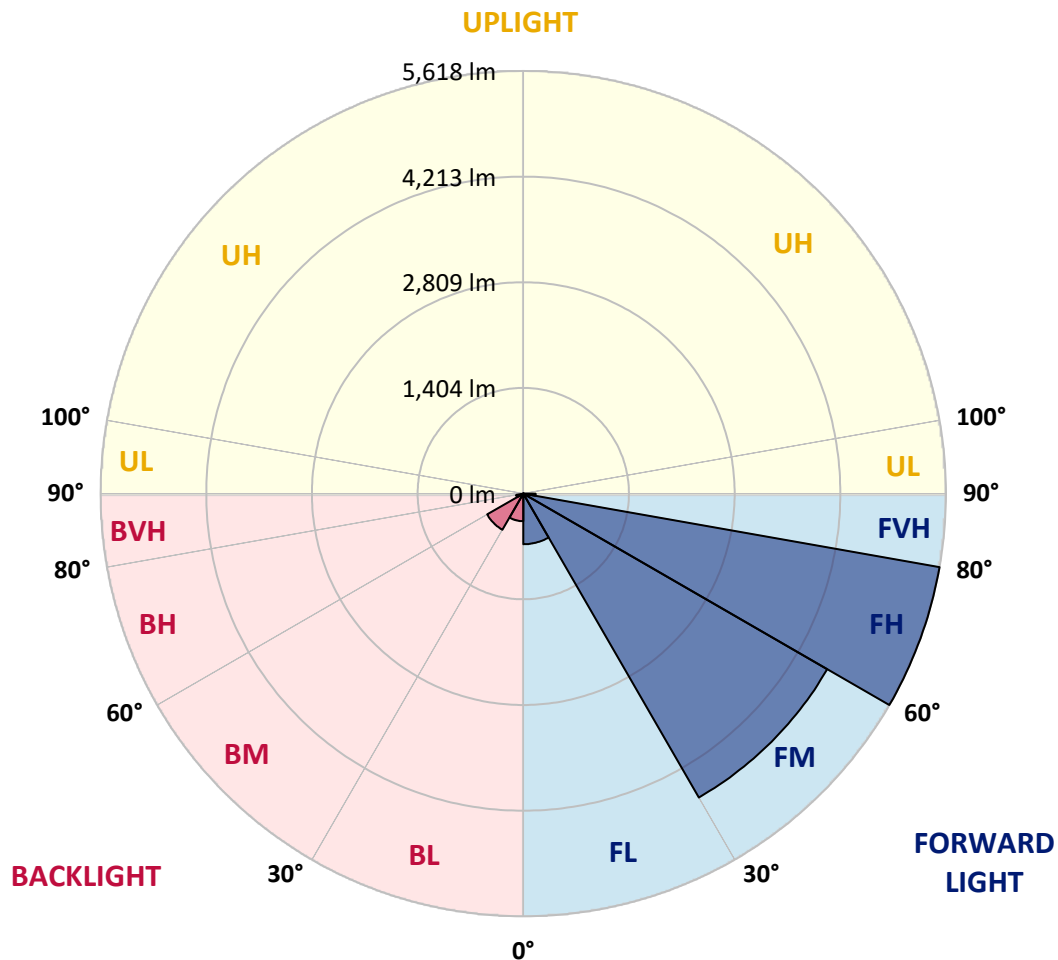
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	672.6	5.5			
FM (30°-60°)	4664.2	38.4			
FH (60°-80°)	5617.9	46.3			G3/7500
FVH (80°-90°)	163.8	1.3			G2/225
BL (0°-30°)	366.2	3.0	B1/500		
BM (30°-60°)	554.5	4.6	B1/1000		
BH (60°-80°)	95.1	0.8	B0/110		G0/110
BVH (80°-90°)	0.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5
2.5°	1809.9	1828.5	1825.7	1832.3	1848.1	1854.6	1872.3	1891.9	1918.9	1937.5	1949.6
5°	1620.8	1634.8	1636.6	1669.3	1685.1	1702.8	1755.0	1811.8	1875.1	1925.4	1958.9
7.5°	1418.7	1426.1	1441.0	1483.9	1523.9	1541.6	1620.8	1719.6	1819.2	1913.3	1973.9
10°	1251.9	1260.3	1287.3	1333.0	1370.2	1393.5	1503.4	1627.3	1767.1	1906.8	1995.3
12.5°	1156.9	1161.6	1171.8	1212.8	1260.3	1285.5	1403.8	1545.4	1725.1	1909.6	2031.6
15°	1150.4	1148.5	1136.4	1153.2	1196.0	1222.1	1337.6	1489.5	1687.9	1918.9	2074.5
17.5°	1184.9	1180.2	1151.3	1151.3	1186.7	1208.2	1309.7	1459.7	1669.3	1940.3	2135.0
20°	1238.0	1230.5	1183.0	1179.3	1213.7	1236.1	1326.5	1461.5	1673.0	1980.4	2216.0
22.5°	1305.0	1296.7	1224.9	1226.8	1264.0	1286.4	1374.9	1495.1	1696.3	2029.7	2302.7
25°	1392.6	1383.3	1298.5	1294.8	1333.9	1353.5	1446.6	1554.7	1728.9	2091.2	2416.3
27.5°	1509.0	1489.5	1387.9	1382.3	1424.3	1449.4	1533.3	1634.8	1786.6	2176.0	2569.1
30°	1605.0	1583.6	1486.7	1471.8	1516.5	1536.0	1622.7	1742.8	1900.3	2324.1	2780.5
32.5°	1730.7	1699.1	1585.4	1546.3	1593.8	1619.0	1752.2	1944.0	2068.9	2480.6	3032.0
35°	2013.9	1994.3	1855.6	1718.6	1715.8	1747.5	1943.1	2147.1	2242.1	2724.6	3374.8
37.5°	2419.1	2405.1	2258.0	2074.5	2021.4	2006.5	2175.1	2370.7	2518.8	3060.0	3773.5
40°	2889.5	2856.9	2721.9	2566.3	2497.4	2453.6	2448.9	2703.2	2880.2	3515.5	4189.0
42.5°	3226.7	3167.1	3003.2	2992.0	2977.1	2931.4	2799.2	3189.5	3346.9	4005.5	4633.3
45°	3580.7	3490.3	3246.3	3204.4	3198.8	3196.0	3328.3	3765.1	3855.5	4536.4	5089.7
47.5°	3855.5	3783.8	3583.5	3564.9	3588.1	3651.5	4027.8	4376.2	4357.6	5009.6	5472.6
50°	4221.6	4167.5	3944.9	3980.3	4100.5	4203.9	4816.8	5042.2	4770.2	5382.2	5751.1
52.5°	4653.8	4554.1	4347.3	4443.3	4627.7	4800.0	5654.2	5625.3	5059.9	5662.6	5958.8
55°	5028.3	4957.5	4886.7	4986.3	5262.1	5477.2	6410.6	6062.2	5270.4	5888.0	6050.1
57.5°	5661.7	5644.9	5572.2	5673.8	6008.2	6231.8	7087.8	6401.3	5405.5	6005.4	5943.0
60°	6598.8	6571.7	6436.7	6566.2	7002.1	7353.3	7711.9	6705.9	5436.2	5959.8	5634.7
62.5°	7725.9	7633.7	7518.2	7709.1	8307.1	8461.8	8299.7	6886.6	5321.7	5596.5	4891.3
65°	8778.5	8683.5	8686.3	9088.7	9739.8	9845.0	8985.3	6859.6	4986.3	4686.4	3607.7
67.5°	9584.2	9568.4	9682.0	10467.3	11318.7	11246.0	9598.2	6455.3	3992.4	3037.6	1917.0
70°	9625.2	9656.0	9982.0	11307.5	12171.9	12056.4	9546.0	5247.2	2489.0	1397.3	755.4
71°	9129.7	9336.4	9787.3	11281.4	12222.2	12072.3	9106.4	4394.8	1825.7	974.4	544.9
72.5°	7779.9	7888.9	8863.2	10617.3	11824.5	11504.1	7991.4	3080.5	1169.0	596.2	313.0
75°	4284.9	4553.2	5935.5	8329.5	9457.5	9176.2	5208.0	1463.4	583.1	326.0	129.5
77.5°	2040.0	1987.8	2896.0	4953.7	6412.5	6397.6	2624.0	650.2	340.0	220.8	65.2
80°	583.1	655.8	1108.5	2354.8	3560.2	3599.3	1007.9	313.9	235.7	172.3	33.5
82.5°	176.1	179.8	407.1	1041.4	1770.8	1669.3	378.2	160.2	169.5	136.9	19.6
85°	30.7	38.2	120.2	367.0	675.3	512.3	95.0	76.4	111.8	90.4	11.2
87.5°	1.9	2.8	40.1	41.9	59.6	34.5	16.8	11.2	24.2	24.2	6.5
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°	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5
2.5°	1958.0	1963.6	1959.9	1951.5	1937.5	1920.8	1898.4	1879.8	1863.9	1855.6	1865.8
5°	1970.1	1977.6	1958.9	1917.0	1853.7	1784.8	1706.5	1646.0	1598.5	1583.6	1578.0
7.5°	1988.8	1993.4	1943.1	1850.0	1715.8	1552.8	1410.3	1290.1	1197.0	1169.0	1128.0
10°	2013.0	2010.2	1915.2	1741.9	1506.2	1261.3	1040.5	876.5	752.7	707.9	704.2
12.5°	2050.2	2035.3	1879.8	1594.7	1256.6	936.2	663.2	518.8	440.6	414.5	408.9
15°	2096.8	2061.4	1823.9	1422.4	962.2	604.5	408.9	365.1	354.9	353.0	351.2
17.5°	2151.8	2095.9	1750.3	1211.0	676.3	392.2	341.9	340.9	341.9	340.0	339.1
20°	2226.3	2132.2	1662.7	960.4	447.1	330.7	326.0	326.0	327.0	326.0	326.0
22.5°	2305.5	2175.1	1554.7	733.1	337.2	313.9	313.0	314.8	316.7	315.8	315.8
25°	2403.3	2230.9	1412.2	502.1	301.8	299.9	300.9	304.6	308.3	309.3	308.3
27.5°	2544.9	2299.9	1259.4	345.6	276.7	278.5	287.8	297.1	302.7	303.7	303.7
30°	2704.2	2376.3	1060.0	280.4	256.2	256.2	267.3	285.0	297.1	299.0	299.9
32.5°	2909.1	2464.8	839.3	252.4	236.6	234.7	245.0	266.4	288.8	295.3	295.3
35°	3162.5	2569.1	624.1	234.7	222.6	218.0	223.6	241.3	270.1	288.8	290.6
37.5°	3459.6	2667.8	456.4	218.9	209.6	203.1	206.8	220.8	244.1	272.0	279.5
40°	3734.4	2755.4	340.9	205.9	196.5	191.9	194.7	201.2	220.8	246.8	251.5
42.5°	4034.3	2823.4	271.1	191.9	183.5	181.6	181.6	184.4	197.5	212.4	213.3
45°	4333.3	2847.6	227.3	175.1	169.5	171.4	170.5	168.6	174.2	172.3	172.3
47.5°	4546.7	2818.7	188.2	159.3	159.3	162.1	157.4	150.9	148.1	136.9	137.9
50°	4692.9	2713.5	154.6	140.7	148.1	151.8	142.5	132.3	122.0	109.9	107.1
52.5°	4753.5	2526.2	126.7	116.4	131.3	136.0	124.8	112.7	96.9	86.6	83.8
55°	4714.3	2295.2	105.3	95.0	110.8	116.4	105.3	91.3	73.6	62.4	60.5
57.5°	4542.0	2019.5	89.4	75.5	88.5	92.2	84.8	69.9	52.2	41.0	41.0
60°	4243.9	1734.5	72.7	59.6	66.1	71.7	64.3	50.3	35.4	25.2	23.3
62.5°	3639.4	1408.4	58.7	46.6	46.6	51.2	44.7	36.3	22.4	13.0	12.1
65°	2627.8	966.0	46.6	34.5	33.5	33.5	27.9	24.2	13.0	5.6	3.7
67.5°	1428.0	544.9	37.3	26.1	23.3	22.4	17.7	14.0	5.6	0.9	0.0
70°	561.7	209.6	28.9	17.7	14.9	14.0	9.3	6.5	3.7	0.0	0.0
71°	381.0	144.4	25.2	14.9	12.1	10.2	7.5	5.6	2.8	0.0	0.0
72.5°	218.0	89.4	19.6	11.2	9.3	7.5	5.6	3.7	2.8	0.0	0.0
75°	95.0	45.6	12.1	8.4	6.5	4.7	3.7	2.8	0.9	0.0	0.0
77.5°	48.4	25.2	8.4	6.5	3.7	2.8	1.9	0.9	0.0	0.0	0.0
80°	27.0	13.0	5.6	3.7	2.8	1.9	0.9	0.9	0.0	0.0	0.0
82.5°	14.9	7.5	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.3	4.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	1.9	0.0	0.0	0.0	0.0	0.9	0.9	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)