

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: P451897

Luminaire Tested: **GALN-SA2D-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451897
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-SA2D-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA 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: 11202 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

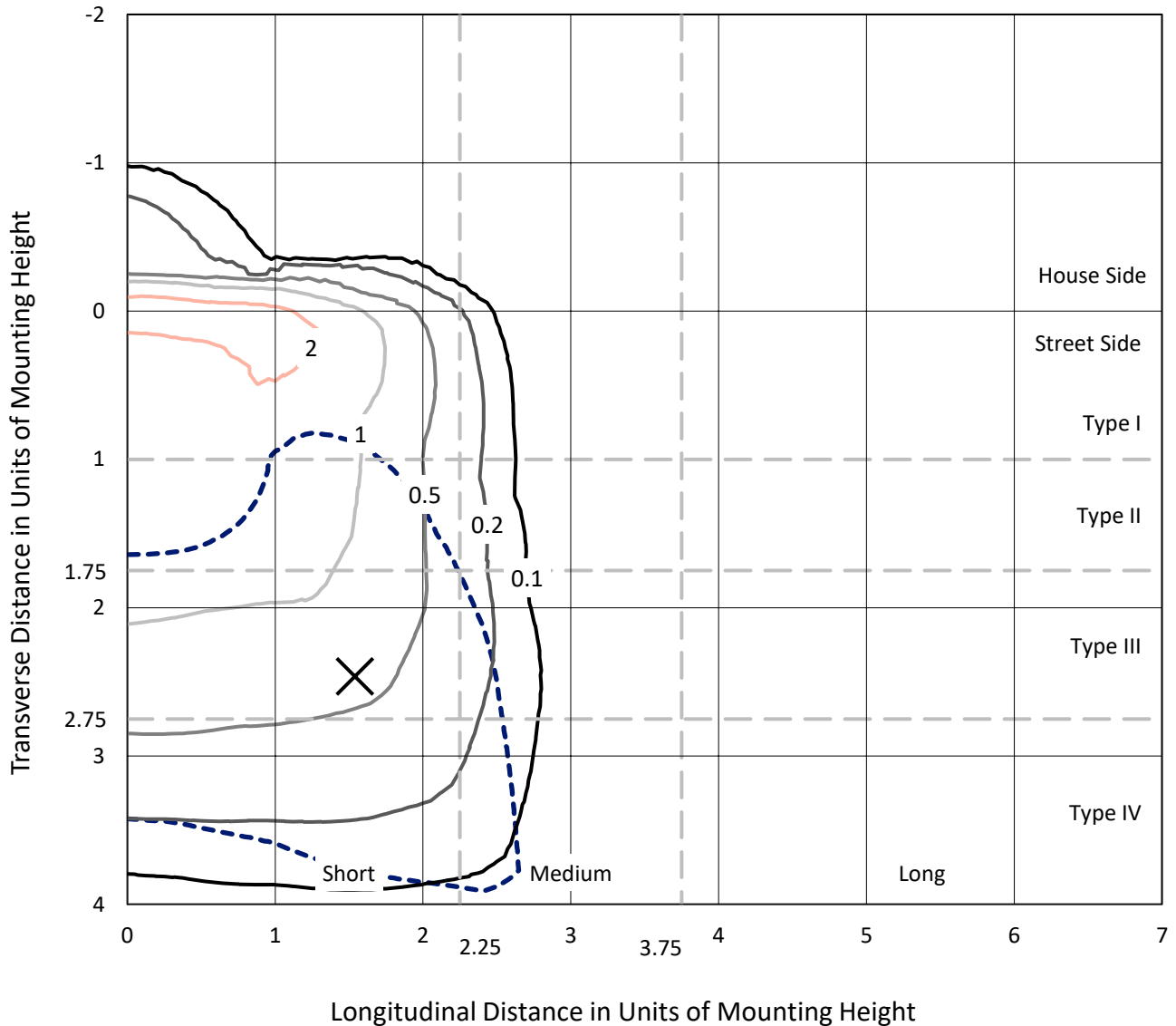
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

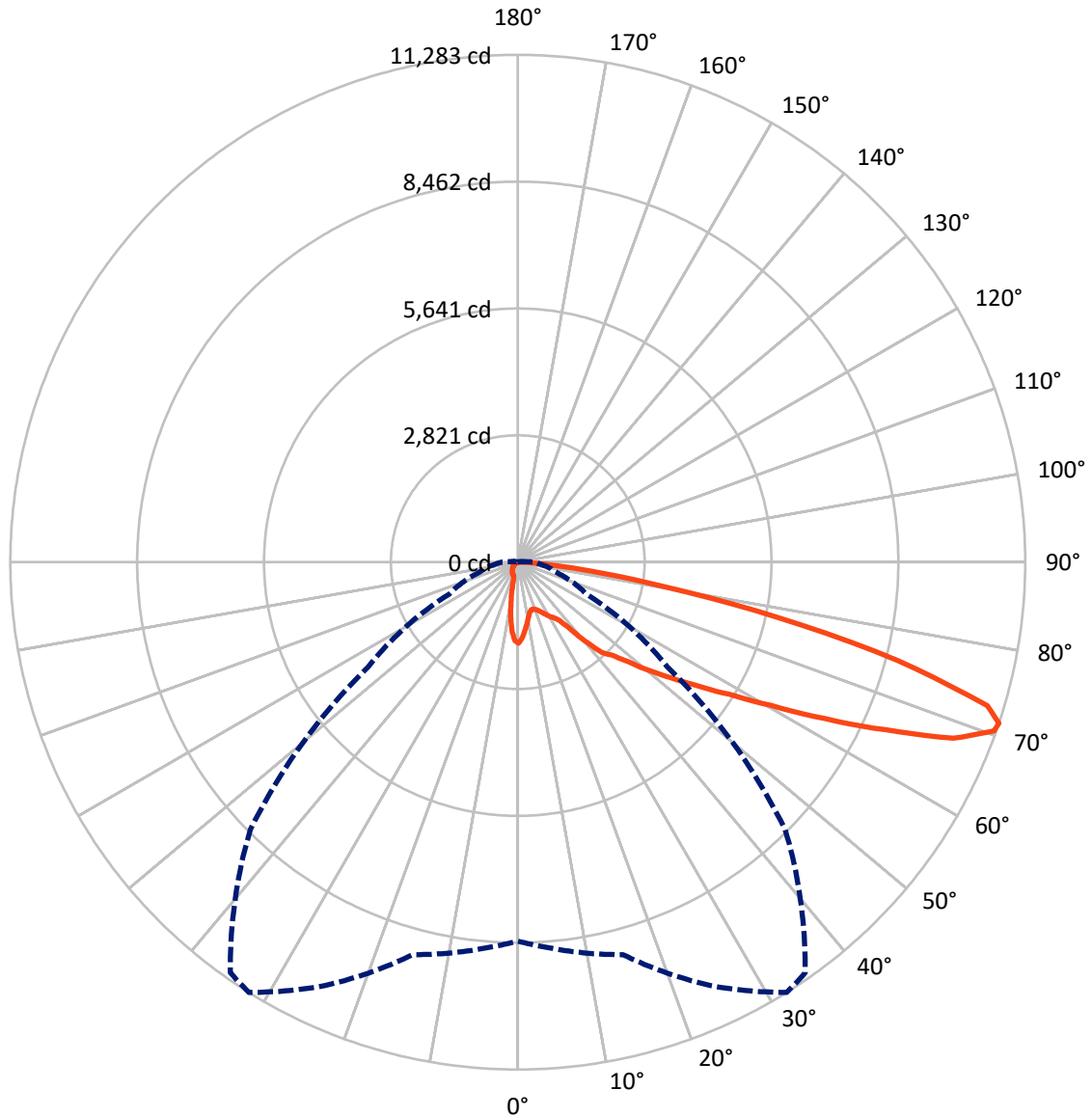
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	938.3	0.0	938.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10263.7	0.0	10263.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	11202.0	0.0	11202.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	1.3
10°-20°	317.9	2.8
20°-30°	494.6	4.4
30°-40°	824.0	7.4
40°-50°	1532.7	13.7
50°-60°	2460.8	22.0
60°-70°	3309.9	29.5
70°-80°	1963.8	17.5
80°-90°	151.8	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°	11202.0	100.0
0°-180°	11202.0	100.0



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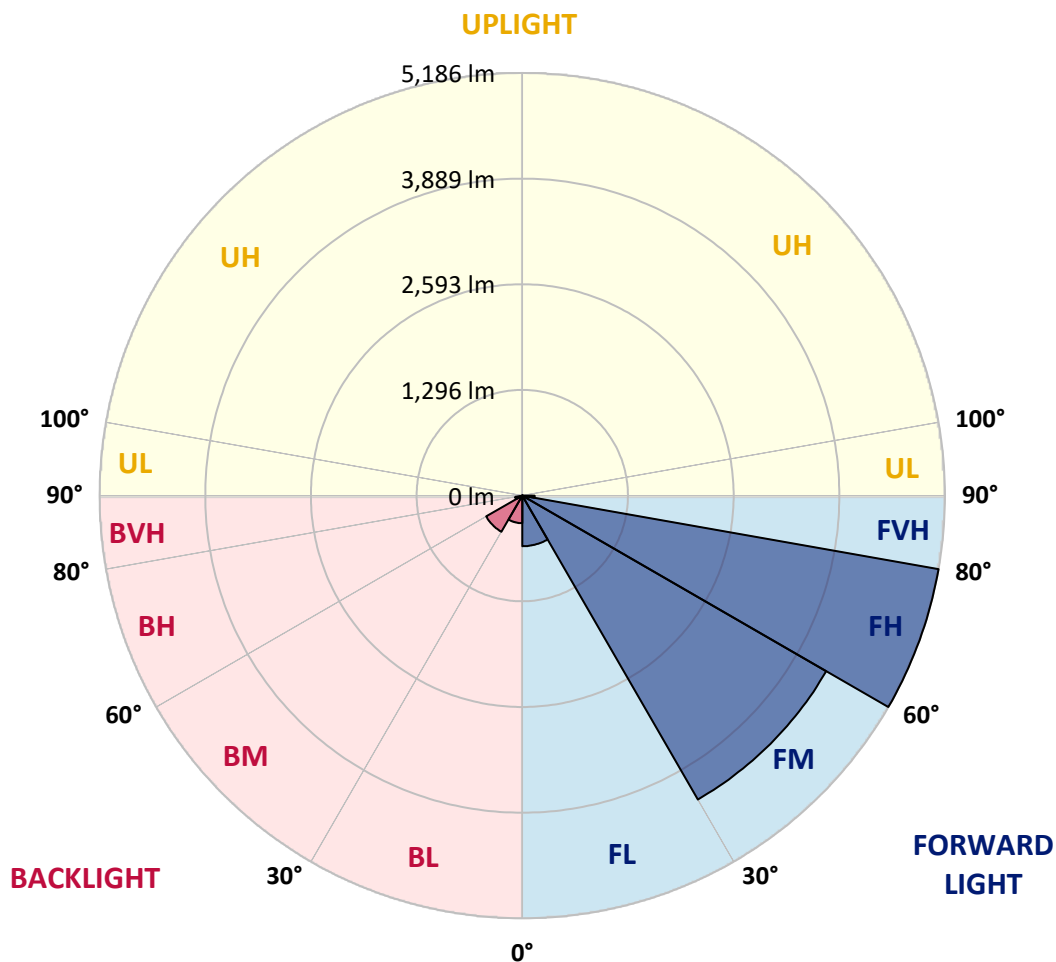
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.9	5.5			
FM (30°-60°)	4305.6	38.4			
FH (60°-80°)	5186.0	46.3			G3/7500
FVH (80°-90°)	151.2	1.3			G2/225
BL (0°-30°)	338.1	3.0	B1/500		
BM (30°-60°)	511.9	4.6	B1/1000		
BH (60°-80°)	87.8	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°	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5
2.5°	1670.8	1688.0	1685.4	1691.4	1706.0	1712.0	1728.4	1746.4	1771.4	1788.6	1799.7
5°	1496.2	1509.1	1510.8	1540.9	1555.5	1571.9	1620.0	1672.5	1730.9	1777.4	1808.3
7.5°	1309.6	1316.5	1330.2	1369.8	1406.8	1423.1	1496.2	1587.3	1679.4	1766.2	1822.1
10°	1155.7	1163.4	1188.4	1230.5	1264.9	1286.4	1387.9	1502.2	1631.2	1760.2	1841.9
12.5°	1068.0	1072.3	1081.7	1119.6	1163.4	1186.6	1295.8	1426.5	1592.5	1762.8	1875.4
15°	1062.0	1060.2	1049.1	1064.5	1104.1	1128.2	1234.8	1375.0	1558.1	1771.4	1915.0
17.5°	1093.8	1089.5	1062.8	1062.8	1095.5	1115.3	1209.0	1347.4	1540.9	1791.1	1970.9
20°	1142.8	1135.9	1092.1	1088.6	1120.4	1141.1	1224.5	1349.2	1544.4	1828.1	2045.7
22.5°	1204.7	1197.0	1130.7	1132.5	1166.9	1187.5	1269.2	1380.1	1565.8	1873.7	2125.6
25°	1285.5	1276.9	1198.7	1195.2	1231.4	1249.4	1335.4	1435.1	1595.9	1930.4	2230.5
27.5°	1393.0	1375.0	1281.2	1276.1	1314.8	1338.0	1415.4	1509.1	1649.3	2008.7	2371.6
30°	1481.6	1461.8	1372.4	1358.6	1399.9	1417.9	1497.9	1608.8	1754.2	2145.4	2566.8
32.5°	1597.7	1568.4	1463.5	1427.4	1471.3	1494.5	1617.4	1794.6	1909.8	2289.9	2798.9
35°	1859.1	1841.0	1712.9	1586.5	1583.9	1613.1	1793.7	1982.0	2069.7	2515.2	3115.4
37.5°	2233.1	2220.2	2084.4	1915.0	1865.9	1852.2	2007.8	2188.4	2325.1	2824.7	3483.4
40°	2667.4	2637.3	2512.6	2369.0	2305.3	2264.9	2260.6	2495.4	2658.8	3245.2	3866.9
42.5°	2978.6	2923.6	2772.3	2761.9	2748.2	2706.1	2584.0	2944.2	3089.6	3697.5	4277.1
45°	3305.4	3222.0	2996.7	2958.0	2952.8	2950.3	3072.4	3475.7	3559.1	4187.6	4698.4
47.5°	3559.1	3492.8	3308.0	3290.8	3312.3	3370.7	3718.1	4039.7	4022.5	4624.5	5051.8
50°	3897.0	3847.1	3641.6	3674.3	3785.2	3880.7	4446.5	4654.6	4403.5	4968.4	5308.9
52.5°	4296.0	4204.0	4013.1	4101.6	4271.9	4431.0	5219.5	5192.8	4670.9	5227.2	5500.7
55°	4641.7	4576.3	4511.0	4603.0	4857.5	5056.1	5917.7	5596.1	4865.2	5435.3	5584.9
57.5°	5226.4	5210.9	5143.8	5237.6	5546.3	5752.6	6542.9	5909.1	4989.9	5543.7	5486.1
60°	6091.4	6066.5	5941.8	6061.3	6463.7	6787.9	7119.0	6190.3	5018.3	5501.5	5201.4
62.5°	7131.9	7046.7	6940.1	7116.4	7668.4	7811.2	7661.6	6357.1	4912.5	5166.2	4515.2
65°	8103.5	8015.8	8018.4	8389.9	8990.9	9088.1	8294.4	6332.2	4603.0	4326.1	3330.3
67.5°	8847.3	8832.7	8937.6	9662.5	10448.4	10381.4	8860.2	5959.0	3685.5	2804.1	1769.6
70°	8885.2	8913.6	9214.5	10438.1	11236.1	11129.5	8812.1	4843.7	2297.6	1289.8	697.4
71°	8427.7	8618.6	9034.8	10414.1	11282.5	11144.1	8406.2	4056.9	1685.4	899.4	503.0
72.5°	7181.7	7282.4	8181.8	9801.0	10915.4	10619.6	7376.9	2843.6	1079.2	550.3	288.9
75°	3955.5	4203.1	5479.2	7689.1	8730.4	8470.7	4807.6	1350.9	538.3	301.0	119.5
77.5°	1883.1	1835.0	2673.4	4572.9	5919.4	5905.7	2422.3	600.2	313.9	203.8	60.2
80°	538.3	605.4	1023.3	2173.8	3286.5	3322.6	930.4	289.8	217.6	159.1	31.0
82.5°	162.5	166.0	375.8	961.4	1634.6	1540.9	349.1	147.9	156.5	126.4	18.1
85°	28.4	35.3	110.9	338.8	623.4	472.9	87.7	70.5	103.2	83.4	10.3
87.5°	1.7	2.6	37.0	38.7	55.0	31.8	15.5	10.3	22.4	22.4	6.0
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°	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5
2.5°	1807.5	1812.6	1809.2	1801.5	1788.6	1773.1	1752.4	1735.2	1720.6	1712.9	1722.3
5°	1818.7	1825.5	1808.3	1769.6	1711.2	1647.5	1575.3	1519.4	1475.6	1461.8	1456.6
7.5°	1835.9	1840.2	1793.7	1707.7	1583.9	1433.4	1301.9	1190.9	1105.0	1079.2	1041.3
10°	1858.2	1855.6	1767.9	1608.0	1390.4	1164.3	960.5	809.2	694.8	653.5	650.1
12.5°	1892.6	1878.8	1735.2	1472.1	1160.0	864.2	612.2	479.0	406.7	382.6	377.5
15°	1935.6	1902.9	1683.7	1313.0	888.3	558.1	377.5	337.1	327.6	325.9	324.2
17.5°	1986.3	1934.7	1615.7	1117.8	624.3	362.0	315.6	314.7	315.6	313.9	313.0
20°	2055.1	1968.3	1534.9	886.5	412.7	305.3	301.0	301.0	301.8	301.0	301.0
22.5°	2128.2	2007.8	1435.1	676.7	311.3	289.8	288.9	290.6	292.4	291.5	291.5
25°	2218.5	2059.4	1303.6	463.5	278.6	276.9	277.7	281.2	284.6	285.5	284.6
27.5°	2349.2	2123.1	1162.6	319.0	255.4	257.1	265.7	274.3	279.5	280.3	280.3
30°	2496.2	2193.6	978.5	258.8	236.5	236.5	246.8	263.1	274.3	276.0	276.9
32.5°	2685.4	2275.3	774.8	233.0	218.4	216.7	226.1	245.9	266.6	272.6	272.6
35°	2919.3	2371.6	576.1	216.7	205.5	201.2	206.4	222.7	249.4	266.6	268.3
37.5°	3193.6	2462.7	421.3	202.1	193.5	187.5	190.9	203.8	225.3	251.1	258.0
40°	3447.3	2543.5	314.7	190.0	181.4	177.1	179.7	185.7	203.8	227.9	232.2
42.5°	3724.2	2606.3	250.2	177.1	169.4	167.7	167.7	170.3	182.3	196.1	196.9
45°	4000.2	2628.7	209.8	161.7	156.5	158.2	157.4	155.6	160.8	159.1	159.1
47.5°	4197.1	2602.0	173.7	147.0	147.0	149.6	145.3	139.3	136.7	126.4	127.3
50°	4332.1	2504.8	142.7	129.8	136.7	140.2	131.6	122.1	112.6	101.5	98.9
52.5°	4388.0	2332.0	116.9	107.5	121.2	125.5	115.2	104.0	89.4	80.0	77.4
55°	4351.9	2118.8	97.2	87.7	102.3	107.5	97.2	84.3	67.9	57.6	55.9
57.5°	4192.8	1864.2	82.5	69.7	81.7	85.1	78.2	64.5	48.2	37.8	37.8
60°	3917.6	1601.1	67.1	55.0	61.1	66.2	59.3	46.4	32.7	23.2	21.5
62.5°	3359.6	1300.1	54.2	43.0	43.0	47.3	41.3	33.5	20.6	12.0	11.2
65°	2425.7	891.7	43.0	31.8	31.0	31.0	25.8	22.4	12.0	5.2	3.4
67.5°	1318.2	503.0	34.4	24.1	21.5	20.6	16.3	12.9	5.2	0.9	0.0
70°	518.5	193.5	26.7	16.3	13.8	12.9	8.6	6.0	3.4	0.0	0.0
71°	351.7	133.3	23.2	13.8	11.2	9.5	6.9	5.2	2.6	0.0	0.0
72.5°	201.2	82.5	18.1	10.3	8.6	6.9	5.2	3.4	2.6	0.0	0.0
75°	87.7	42.1	11.2	7.7	6.0	4.3	3.4	2.6	0.9	0.0	0.0
77.5°	44.7	23.2	7.7	6.0	3.4	2.6	1.7	0.9	0.0	0.0	0.0
80°	24.9	12.0	5.2	3.4	2.6	1.7	0.9	0.9	0.0	0.0	0.0
82.5°	13.8	6.9	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.6	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	1.7	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)