

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: P452332

Luminaire Tested: **GALN-SA3B-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452332
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-SA3B-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA 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: 11140 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

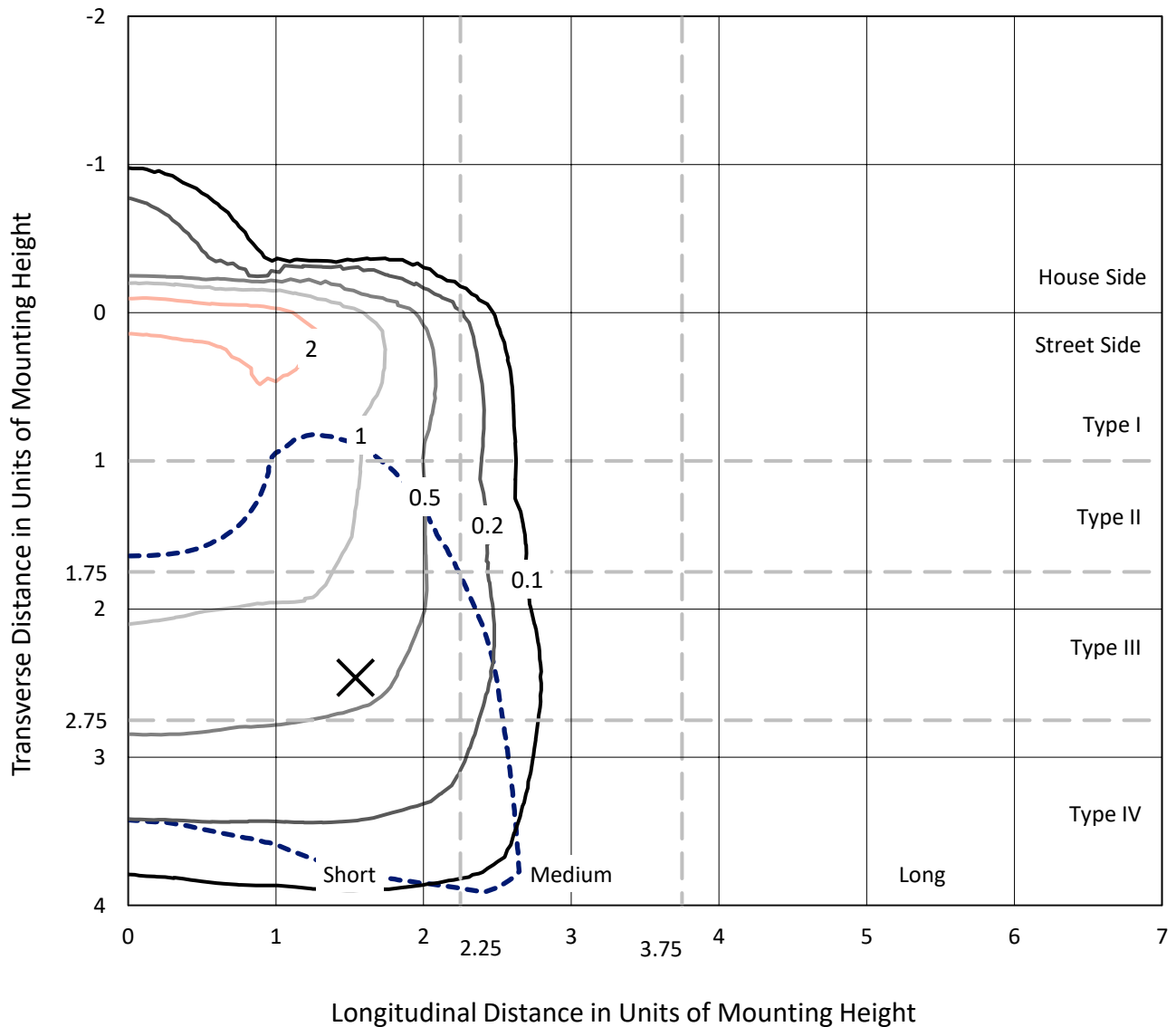
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452332
 CATALOG NUMBER: GALN-SA3B-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

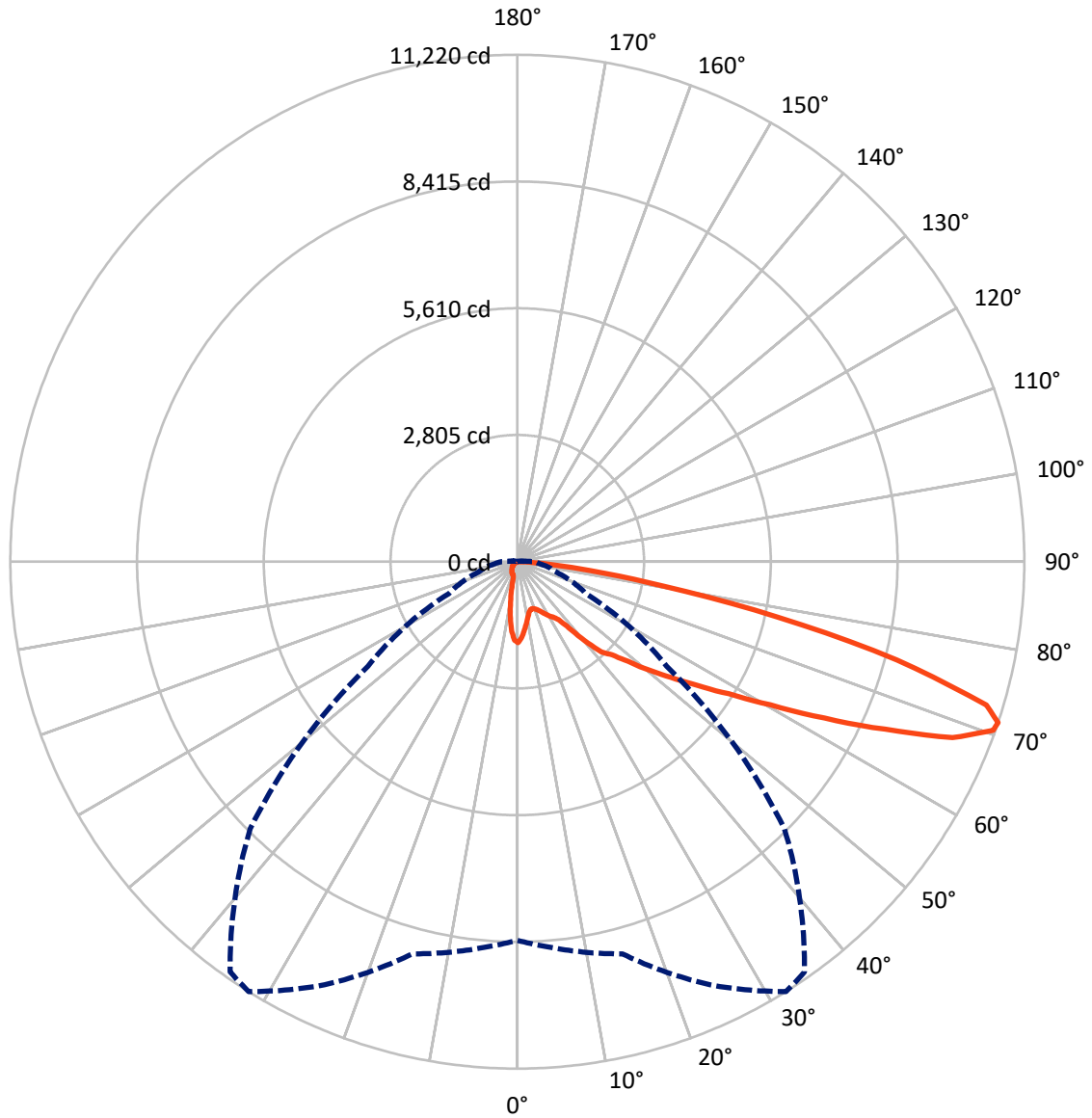
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P452332
CATALOG NUMBER: GALN-SA3B-730-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452332
 CATALOG NUMBER: GALN-SA3B-730-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	933.1	0.0	933.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10206.9	0.0	10206.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	11140.0	0.0	11140.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	1.3
10°-20°	316.2	2.8
20°-30°	491.8	4.4
30°-40°	819.4	7.4
40°-50°	1524.2	13.7
50°-60°	2447.2	22.0
60°-70°	3291.6	29.5
70°-80°	1953.0	17.5
80°-90°	151.0	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°	11140.0	100.0
0°-180°	11140.0	100.0



REPORT NUMBER: P452332

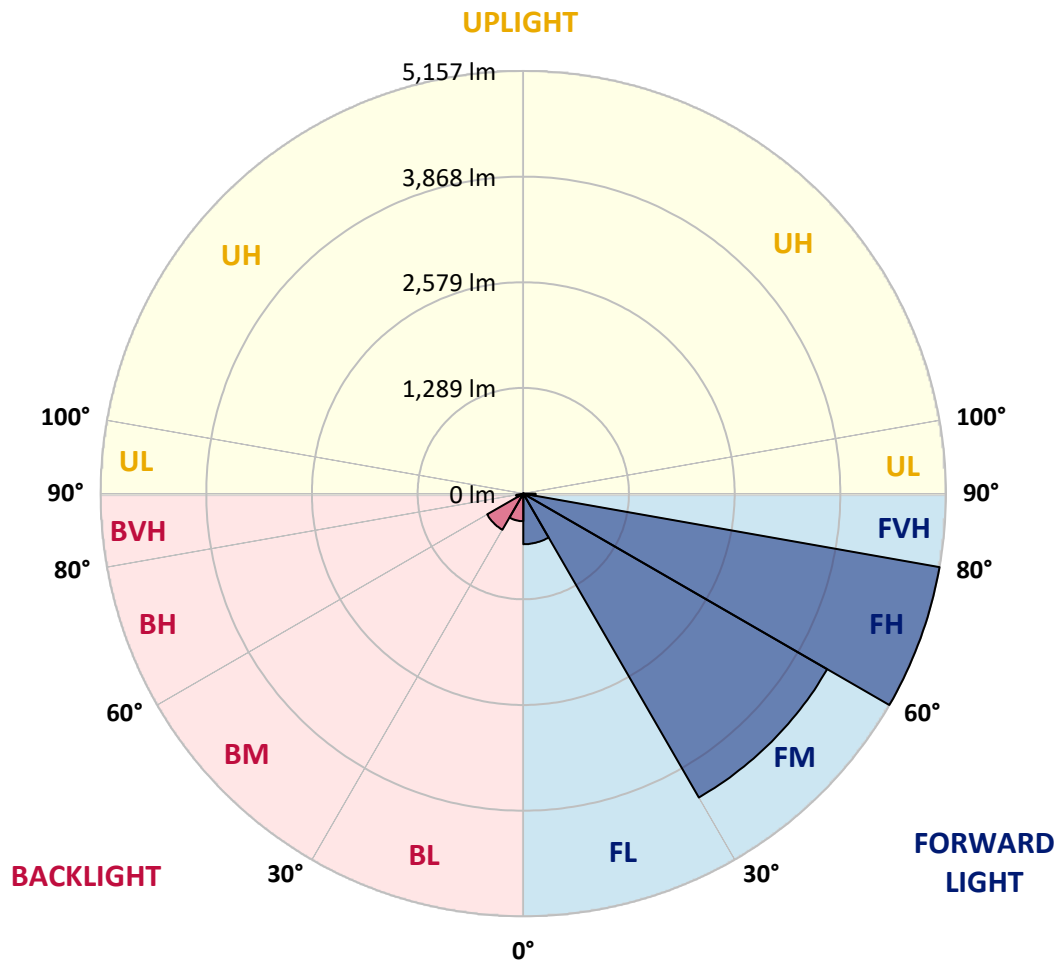
CATALOG NUMBER: GALN-SA3B-730-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.5	5.5			
FM (30°-60°)	4281.8	38.4			
FH (60°-80°)	5157.3	46.3			G3/7500
FVH (80°-90°)	150.4	1.3			G2/225
BL (0°-30°)	336.2	3.0	B1/500		
BM (30°-60°)	509.0	4.6	B1/1000		
BH (60°-80°)	87.3	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





REPORT NUMBER: P452332

CATALOG NUMBER: GALN-SA3B-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5
2.5°	1661.5	1678.6	1676.0	1682.0	1696.6	1702.6	1718.8	1736.8	1761.6	1778.7	1789.8
5°	1487.9	1500.7	1502.5	1532.4	1546.9	1563.2	1611.1	1663.2	1721.4	1767.5	1798.3
7.5°	1302.4	1309.2	1322.9	1362.2	1399.0	1415.2	1487.9	1578.6	1670.1	1756.4	1812.0
10°	1149.3	1157.0	1181.8	1223.7	1257.9	1279.3	1380.2	1493.9	1622.2	1750.4	1831.7
12.5°	1062.1	1066.3	1075.7	1113.4	1157.0	1180.1	1288.7	1418.7	1583.7	1753.0	1865.0
15°	1056.1	1054.4	1043.3	1058.6	1098.0	1121.9	1228.0	1367.3	1549.5	1761.6	1904.4
17.5°	1087.7	1083.4	1056.9	1056.9	1089.4	1109.1	1202.3	1340.0	1532.4	1781.2	1959.9
20°	1136.5	1129.6	1086.0	1082.6	1114.2	1134.8	1217.7	1341.7	1535.8	1818.0	2034.3
22.5°	1198.0	1190.3	1124.5	1126.2	1160.4	1180.9	1262.2	1372.5	1557.2	1863.3	2113.9
25°	1278.4	1269.9	1192.0	1188.6	1224.5	1242.5	1328.0	1427.2	1587.1	1919.8	2218.2
27.5°	1385.3	1367.3	1274.1	1269.0	1307.5	1330.6	1407.5	1500.7	1640.1	1997.6	2358.4
30°	1473.4	1453.7	1364.8	1351.1	1392.1	1410.1	1489.6	1599.9	1744.5	2133.5	2552.5
32.5°	1588.8	1559.7	1455.4	1419.5	1463.1	1486.2	1608.5	1784.6	1899.2	2277.2	2783.4
35°	1848.8	1830.8	1703.4	1577.7	1575.1	1604.2	1783.8	1971.1	2058.3	2501.2	3098.1
37.5°	2220.8	2207.9	2072.8	1904.4	1855.6	1841.9	1996.7	2176.3	2312.3	2809.1	3464.1
40°	2652.6	2622.7	2498.7	2355.9	2292.6	2252.4	2248.1	2481.6	2644.0	3227.2	3845.5
42.5°	2962.2	2907.4	2756.9	2746.7	2733.0	2691.1	2569.6	2927.9	3072.5	3677.0	4253.4
45°	3287.1	3204.2	2980.1	2941.6	2936.5	2933.9	3055.4	3456.4	3539.4	4164.5	4672.4
47.5°	3539.4	3473.5	3289.7	3272.6	3293.9	3352.1	3697.6	4017.4	4000.3	4598.9	5023.9
50°	3875.4	3825.8	3621.5	3653.9	3764.3	3859.2	4421.8	4628.8	4379.1	4940.9	5279.5
52.5°	4272.2	4180.7	3990.9	4078.9	4248.3	4406.5	5190.6	5164.1	4645.0	5198.3	5470.2
55°	4616.0	4551.0	4486.0	4577.5	4830.6	5028.1	5885.0	5565.2	4838.3	5405.2	5554.0
57.5°	5197.4	5182.1	5115.4	5208.6	5515.6	5720.8	6506.6	5876.4	4962.3	5513.0	5455.7
60°	6057.7	6032.9	5908.9	6027.8	6428.0	6750.4	7079.6	6156.0	4990.5	5471.1	5172.6
62.5°	7092.4	7007.7	6901.7	7077.0	7626.0	7768.0	7619.2	6321.9	4885.3	5137.6	4490.3
65°	8058.7	7971.5	7974.0	8343.5	8941.2	9037.8	8248.5	6297.1	4577.5	4302.1	3311.9
67.5°	8798.4	8783.8	8888.2	9609.0	10390.6	10323.9	8811.2	5926.0	3665.1	2788.6	1759.8
70°	8836.0	8864.2	9163.5	10380.4	11173.9	11067.9	8763.3	4816.9	2284.9	1282.7	693.5
71°	8381.1	8570.9	8984.8	10356.4	11220.1	11082.4	8359.7	4034.5	1676.0	894.5	500.2
72.5°	7142.0	7242.1	8136.5	9746.7	10855.0	10560.8	7336.1	2827.9	1073.2	547.3	287.3
75°	3933.6	4179.8	5448.9	7646.5	8682.1	8423.8	4781.0	1343.4	535.3	299.3	118.9
77.5°	1872.7	1824.8	2658.6	4547.6	5886.7	5873.0	2408.9	596.9	312.1	202.7	59.9
80°	535.3	602.0	1017.6	2161.8	3268.3	3304.2	925.2	288.2	216.3	158.2	30.8
82.5°	161.6	165.0	373.7	956.0	1625.6	1532.4	347.2	147.1	155.6	125.7	18.0
85°	28.2	35.1	110.3	336.9	620.0	470.3	87.2	70.1	102.6	82.9	10.3
87.5°	1.7	2.6	36.8	38.5	54.7	31.6	15.4	10.3	22.2	22.2	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



REPORT NUMBER: P452332

CATALOG NUMBER: GALN-SA3B-730-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5
2.5°	1797.5	1802.6	1799.2	1791.5	1778.7	1763.3	1742.7	1725.6	1711.1	1703.4	1712.8
5°	1808.6	1815.4	1798.3	1759.8	1701.7	1638.4	1566.6	1511.0	1467.4	1453.7	1448.6
7.5°	1825.7	1830.0	1783.8	1698.3	1575.1	1425.5	1294.7	1184.3	1098.8	1073.2	1035.6
10°	1847.9	1845.4	1758.1	1599.1	1382.7	1157.8	955.2	804.7	690.9	649.9	646.5
12.5°	1882.1	1868.4	1725.6	1464.0	1153.6	859.4	608.8	476.3	404.5	380.5	375.4
15°	1924.9	1892.4	1674.3	1305.8	883.3	555.0	375.4	335.2	325.8	324.1	322.4
17.5°	1975.3	1924.0	1606.8	1111.7	620.8	360.0	313.8	313.0	313.8	312.1	311.3
20°	2043.7	1957.4	1526.4	881.6	410.5	303.6	299.3	299.3	300.1	299.3	299.3
22.5°	2116.4	1996.7	1427.2	673.0	309.6	288.2	287.3	289.0	290.7	289.9	289.9
25°	2206.2	2048.0	1296.4	460.9	277.1	275.4	276.2	279.6	283.0	283.9	283.0
27.5°	2336.2	2111.3	1156.1	317.3	254.0	255.7	264.2	272.8	277.9	278.8	278.8
30°	2482.4	2181.4	973.1	257.4	235.2	235.2	245.4	261.7	272.8	274.5	275.4
32.5°	2670.6	2262.7	770.5	231.7	217.2	215.5	224.9	244.6	265.1	271.1	271.1
35°	2903.1	2358.4	572.9	215.5	204.4	200.1	205.2	221.5	248.0	265.1	266.8
37.5°	3175.9	2449.1	419.0	201.0	192.4	186.4	189.8	202.7	224.0	249.7	256.5
40°	3428.2	2529.5	313.0	189.0	180.4	176.2	178.7	184.7	202.7	226.6	230.9
42.5°	3703.5	2591.9	248.8	176.2	168.5	166.7	166.7	169.3	181.3	195.0	195.8
45°	3978.0	2614.1	208.7	160.8	155.6	157.3	156.5	154.8	159.9	158.2	158.2
47.5°	4173.9	2587.6	172.7	146.2	146.2	148.8	144.5	138.5	136.0	125.7	126.6
50°	4308.1	2491.0	142.0	129.1	136.0	139.4	130.8	121.4	112.0	100.9	98.3
52.5°	4363.7	2319.1	116.3	106.9	120.6	124.8	114.6	103.5	88.9	79.5	77.0
55°	4327.8	2107.0	96.6	87.2	101.8	106.9	96.6	83.8	67.6	57.3	55.6
57.5°	4169.6	1853.9	82.1	69.3	81.2	84.7	77.8	64.1	47.9	37.6	37.6
60°	3895.9	1592.2	66.7	54.7	60.7	65.8	59.0	46.2	32.5	23.1	21.4
62.5°	3341.0	1292.9	53.9	42.8	42.8	47.0	41.0	33.3	20.5	12.0	11.1
65°	2412.3	886.8	42.8	31.6	30.8	30.8	25.7	22.2	12.0	5.1	3.4
67.5°	1310.9	500.2	34.2	23.9	21.4	20.5	16.2	12.8	5.1	0.9	0.0
70°	515.6	192.4	26.5	16.2	13.7	12.8	8.6	6.0	3.4	0.0	0.0
71°	349.7	132.5	23.1	13.7	11.1	9.4	6.8	5.1	2.6	0.0	0.0
72.5°	200.1	82.1	18.0	10.3	8.6	6.8	5.1	3.4	2.6	0.0	0.0
75°	87.2	41.9	11.1	7.7	6.0	4.3	3.4	2.6	0.9	0.0	0.0
77.5°	44.5	23.1	7.7	6.0	3.4	2.6	1.7	0.9	0.0	0.0	0.0
80°	24.8	12.0	5.1	3.4	2.6	1.7	0.9	0.9	0.0	0.0	0.0
82.5°	13.7	6.8	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)