

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: P650824

Luminaire Tested: **GALN-SA3C-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650824
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-SA3C-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA 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: 12710 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

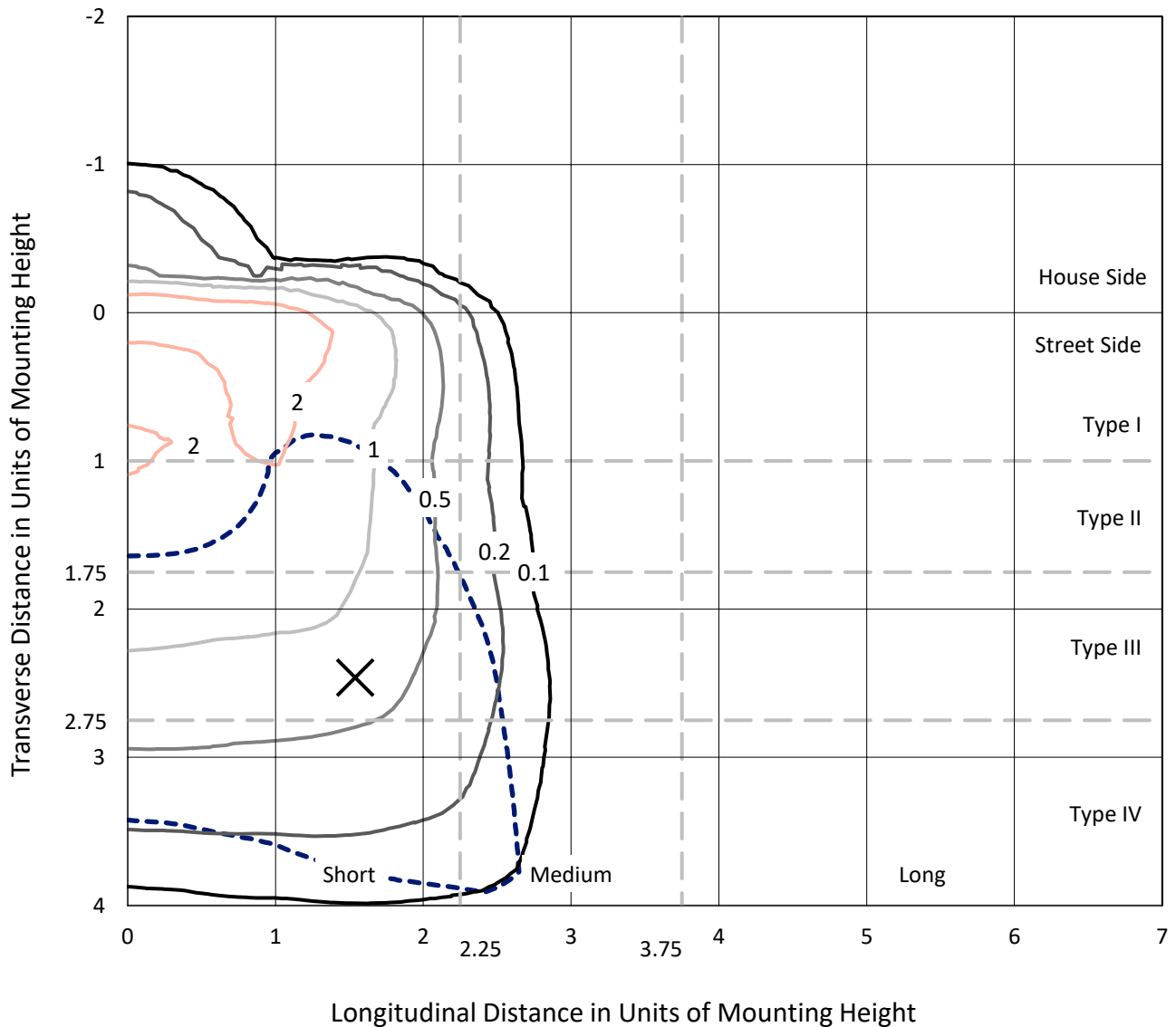
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

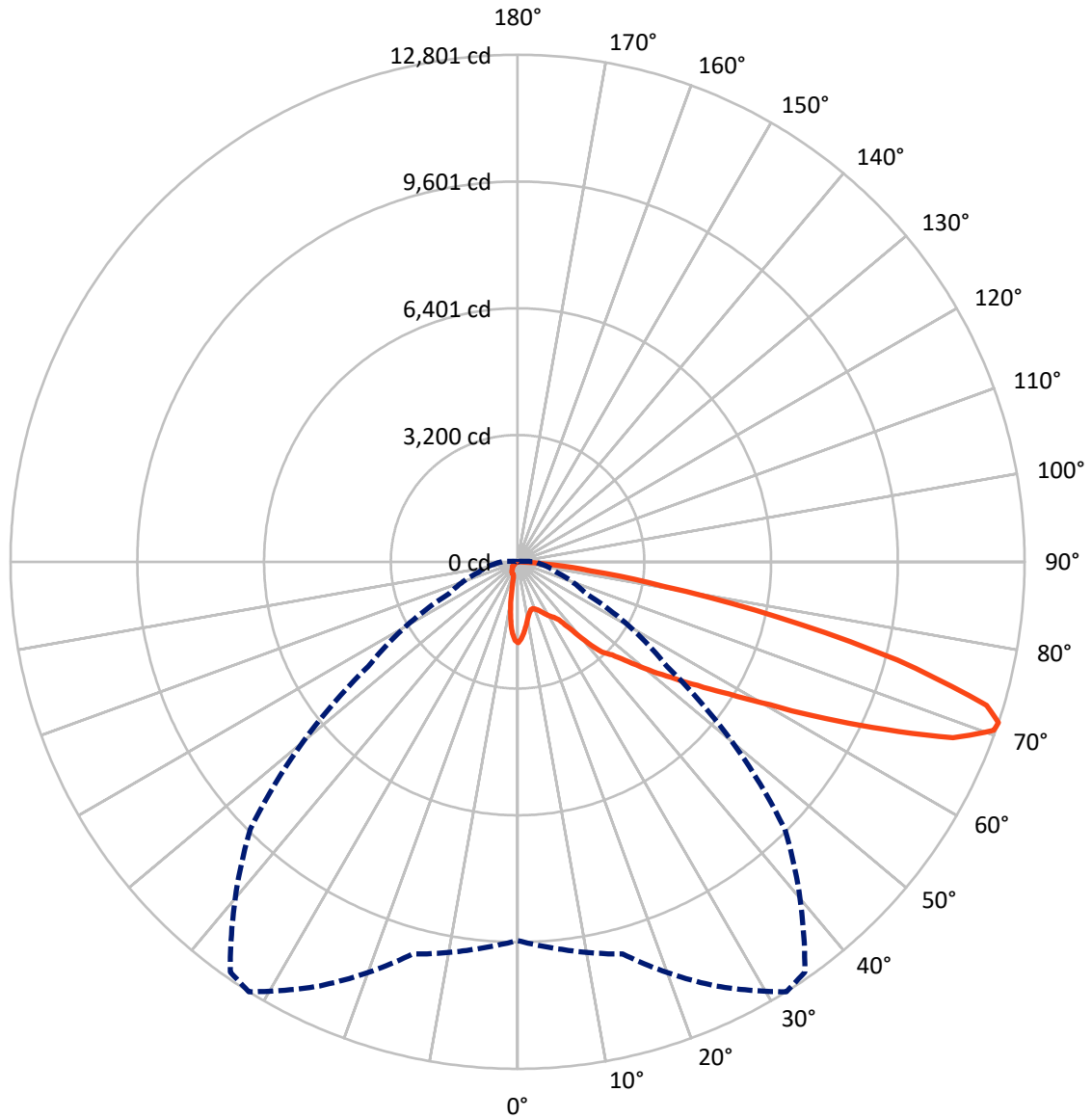
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	1064.6	0.0	1064.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11645.4	0.0	11645.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	12710.0	0.0	12710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	1.3
10°-20°	360.7	2.8
20°-30°	561.2	4.4
30°-40°	934.9	7.4
40°-50°	1739.0	13.7
50°-60°	2792.1	22.0
60°-70°	3755.5	29.5
70°-80°	2228.2	17.5
80°-90°	172.2	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°	12710.0	100.0
0°-180°	12710.0	100.0

Coefficient of Utilization

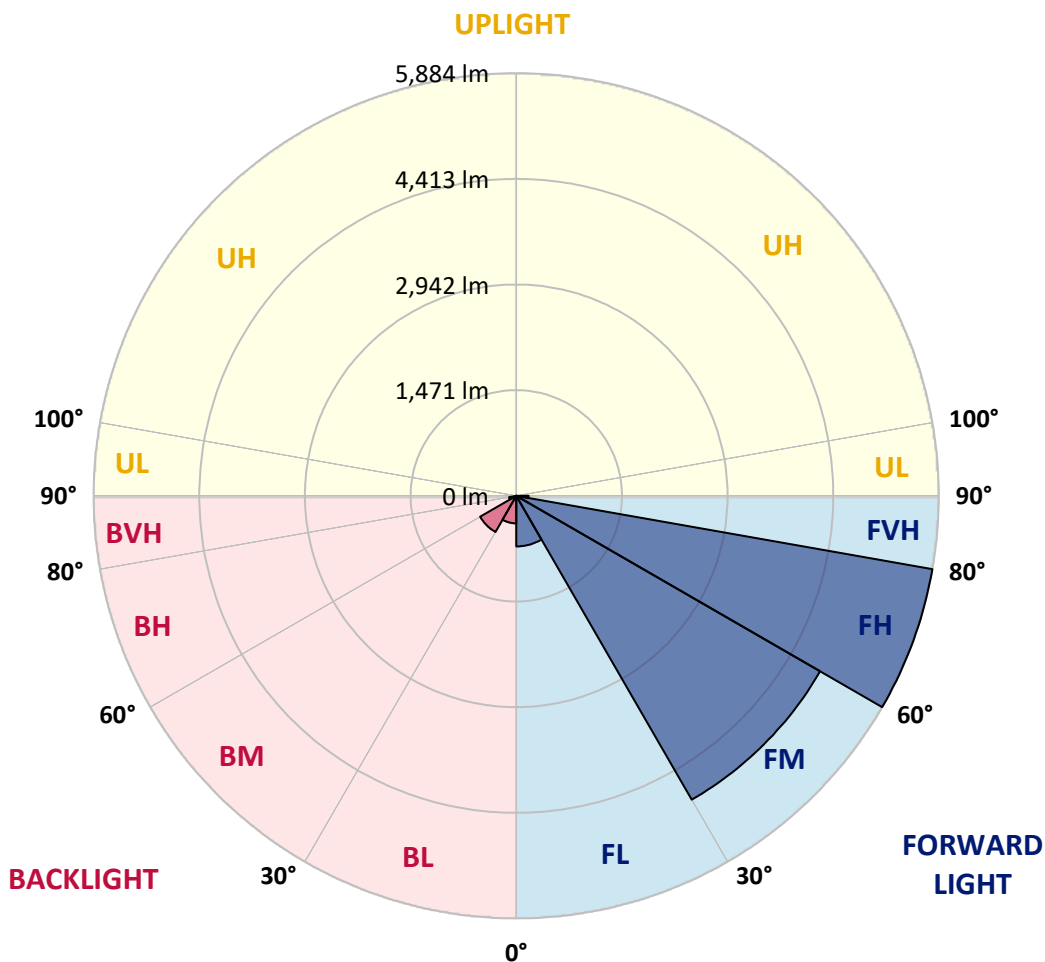


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	704.5	5.5			
FM (30°-60°)	4885.3	38.4			
FH (60°-80°)	5884.1	46.3			G3/7500
FVH (80°-90°)	171.6	1.3			G2/225
BL (0°-30°)	383.6	3.0	B1/500		
BM (30°-60°)	580.8	4.6	B1/1000		
BH (60°-80°)	99.6	0.8	B0/110		G0/110
BVH (80°-90°)	0.7	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°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	1895.7	1915.2	1912.3	1919.1	1935.6	1942.5	1961.0	1981.6	2009.8	2029.3	2042.0
5°	1697.6	1712.3	1714.2	1748.4	1764.9	1783.5	1838.1	1897.6	1964.0	2016.6	2051.8
7.5°	1485.9	1493.7	1509.3	1554.2	1596.1	1614.7	1697.6	1801.0	1905.5	2003.9	2067.3
10°	1311.3	1320.0	1348.4	1396.1	1435.2	1459.6	1574.7	1704.5	1850.8	1997.1	2089.8
12.5°	1211.7	1216.6	1227.4	1270.2	1320.0	1346.4	1470.3	1618.6	1806.9	2000.1	2127.9
15°	1204.9	1203.0	1190.3	1207.8	1252.8	1280.0	1401.0	1560.1	1767.9	2009.8	2172.7
17.5°	1241.0	1236.1	1205.9	1205.9	1243.0	1265.4	1371.8	1528.9	1748.4	2032.3	2236.1
20°	1296.7	1288.8	1239.0	1235.2	1271.3	1294.7	1389.3	1530.8	1752.2	2074.2	2321.1
22.5°	1366.9	1358.1	1282.9	1284.9	1324.0	1347.4	1440.0	1565.9	1776.6	2126.0	2411.8
25°	1458.5	1448.8	1360.1	1356.1	1397.2	1417.6	1515.1	1628.3	1810.8	2190.3	2530.8
27.5°	1580.6	1560.1	1453.7	1447.9	1491.8	1518.1	1605.9	1712.3	1871.3	2279.1	2690.9
30°	1681.0	1658.6	1557.1	1541.6	1588.3	1608.8	1699.6	1825.4	1990.3	2434.2	2912.3
32.5°	1812.8	1779.6	1660.6	1619.6	1669.3	1695.7	1835.1	2036.1	2166.9	2598.1	3175.7
35°	2109.3	2088.9	1943.5	1800.1	1797.1	1830.3	2035.2	2248.8	2348.4	2853.8	3534.7
37.5°	2533.8	2519.1	2365.0	2172.7	2117.1	2101.6	2278.1	2483.1	2638.1	3205.0	3952.4
40°	3026.4	2992.3	2850.8	2687.9	2615.7	2569.8	2565.0	2831.3	3016.7	3682.1	4387.5
42.5°	3379.6	3317.2	3145.5	3133.7	3118.2	3070.3	2931.8	3340.6	3505.5	4195.2	4852.8
45°	3750.4	3655.7	3400.1	3356.2	3350.4	3347.4	3485.9	3943.5	4038.1	4751.4	5330.9
47.5°	4038.1	3963.0	3753.3	3733.8	3758.2	3824.5	4218.7	4583.5	4564.0	5247.0	5731.9
50°	4421.6	4365.0	4131.8	4168.9	4294.8	4403.1	5045.1	5281.1	4996.3	5637.2	6023.6
52.5°	4874.4	4769.9	4553.3	4653.8	4847.0	5027.5	5922.2	5891.9	5299.7	5930.9	6241.2
55°	5266.5	5192.3	5118.2	5222.6	5511.4	5736.8	6714.4	6349.5	5520.2	6167.1	6336.8
57.5°	5930.0	5912.4	5836.3	5942.7	6292.9	6527.1	7423.7	6704.6	5661.7	6290.0	6224.6
60°	6911.4	6883.2	6741.7	6877.3	7333.9	7701.7	8077.4	7023.6	5693.8	6242.2	5901.6
62.5°	8092.0	7995.4	7874.5	8074.4	8700.8	8862.7	8693.0	7212.9	5573.8	5861.7	5123.1
65°	9194.5	9094.9	9097.9	9519.4	10201.3	10311.6	9411.0	7184.7	5222.6	4908.5	3778.7
67.5°	10038.4	10021.8	10140.9	10963.3	11855.1	11779.0	10053.1	6761.2	4181.6	3181.6	2007.9
70°	10081.3	10113.5	10455.0	11843.3	12748.7	12627.8	9998.4	5495.8	2606.9	1463.4	791.2
71°	9562.3	9778.9	10251.1	11816.0	12801.4	12644.4	9537.9	4603.0	1912.3	1020.6	570.8
72.5°	8148.5	8262.7	9283.2	11120.4	12384.8	12049.2	8370.1	3226.4	1224.4	624.4	327.8
75°	4488.0	4769.0	6216.8	8724.2	9905.7	9611.0	5454.8	1532.7	610.7	341.4	135.7
77.5°	2136.6	2082.1	3033.2	5188.5	6716.3	6700.8	2748.4	681.0	356.1	231.2	68.3
80°	610.7	686.8	1161.0	2466.4	3728.9	3769.9	1055.6	328.8	246.8	180.5	35.2
82.5°	184.4	188.3	426.4	1090.8	1854.7	1748.4	396.1	167.8	177.5	143.4	20.5
85°	32.2	40.0	125.9	384.4	707.4	536.6	99.5	80.0	117.1	94.6	11.7
87.5°	1.9	2.9	42.0	43.9	62.4	36.1	17.6	11.7	25.4	25.4	6.8
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°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	2050.8	2056.7	2052.7	2044.0	2029.3	2011.8	1988.4	1968.9	1952.3	1943.5	1954.2
5°	2063.5	2071.3	2051.8	2007.9	1941.5	1869.3	1787.4	1724.0	1674.2	1658.6	1652.7
7.5°	2083.0	2087.9	2035.2	1937.7	1797.1	1626.4	1477.1	1351.2	1253.7	1224.4	1181.5
10°	2108.4	2105.4	2006.0	1824.5	1577.6	1321.0	1089.8	918.1	788.4	741.5	737.6
12.5°	2147.4	2131.8	1968.9	1670.3	1316.2	980.5	694.7	543.5	461.5	434.1	428.3
15°	2196.2	2159.1	1910.3	1489.8	1007.9	633.2	428.3	382.5	371.7	369.8	367.9
17.5°	2253.7	2195.2	1833.2	1268.3	708.3	410.7	358.1	357.1	358.1	356.1	355.2
20°	2331.8	2233.3	1741.5	1005.9	468.3	346.3	341.4	341.4	342.5	341.4	341.4
22.5°	2414.7	2278.1	1628.3	767.8	353.2	328.8	327.8	329.8	331.7	330.8	330.8
25°	2517.2	2336.6	1479.1	525.9	316.1	314.2	315.1	319.1	322.9	324.0	322.9
27.5°	2665.5	2408.9	1319.1	362.0	289.7	291.7	301.5	311.3	317.1	318.1	318.1
30°	2832.3	2488.9	1110.3	293.7	268.3	268.3	280.0	298.6	311.3	313.2	314.2
32.5°	3046.9	2581.5	879.0	264.4	247.8	245.8	256.6	279.0	302.4	309.3	309.3
35°	3312.3	2690.9	653.7	245.8	233.2	228.3	234.1	252.7	282.9	302.4	304.4
37.5°	3623.5	2794.2	478.0	229.3	219.5	212.7	216.6	231.2	255.6	284.8	292.7
40°	3911.3	2886.0	357.1	215.6	205.9	201.0	203.9	210.8	231.2	258.5	263.4
42.5°	4225.5	2957.2	283.9	201.0	192.2	190.2	190.2	193.2	206.8	222.4	223.5
45°	4538.7	2982.5	238.1	183.4	177.5	179.6	178.5	176.6	182.4	180.5	180.5
47.5°	4762.1	2952.3	197.0	166.9	166.9	169.8	164.9	158.0	155.2	143.4	144.4
50°	4915.3	2842.1	162.0	147.3	155.2	159.0	149.3	138.5	127.8	115.1	112.2
52.5°	4978.7	2646.0	132.7	121.9	137.6	142.5	130.8	118.1	101.5	90.7	87.8
55°	4937.8	2404.0	110.3	99.5	116.1	121.9	110.3	95.6	77.0	65.3	63.4
57.5°	4757.2	2115.2	93.7	79.1	92.7	96.5	88.8	73.2	54.7	42.9	42.9
60°	4445.0	1816.6	76.1	62.4	69.3	75.1	67.3	52.6	37.1	26.3	24.4
62.5°	3811.8	1475.2	61.5	48.8	48.8	53.7	46.8	38.0	23.4	13.6	12.7
65°	2752.3	1011.7	48.8	36.1	35.2	35.2	29.3	25.4	13.6	5.9	3.9
67.5°	1495.6	570.8	39.0	27.3	24.4	23.4	18.5	14.6	5.9	1.0	0.0
70°	588.3	219.5	30.3	18.5	15.6	14.6	9.8	6.8	3.9	0.0	0.0
71°	399.1	151.2	26.3	15.6	12.7	10.8	7.8	5.9	2.9	0.0	0.0
72.5°	228.3	93.7	20.5	11.7	9.8	7.8	5.9	3.9	2.9	0.0	0.0
75°	99.5	47.8	12.7	8.7	6.8	4.9	3.9	2.9	1.0	0.0	0.0
77.5°	50.7	26.3	8.7	6.8	3.9	2.9	1.9	1.0	0.0	0.0	0.0
80°	28.3	13.6	5.9	3.9	2.9	1.9	1.0	1.0	0.0	0.0	0.0
82.5°	15.6	7.8	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.8	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	1.9	0.0	0.0	0.0	0.0	1.0	1.0	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)