

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: P452100

Luminaire Tested: **GALN-SA3A-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452100
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-SA3A-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 8953 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

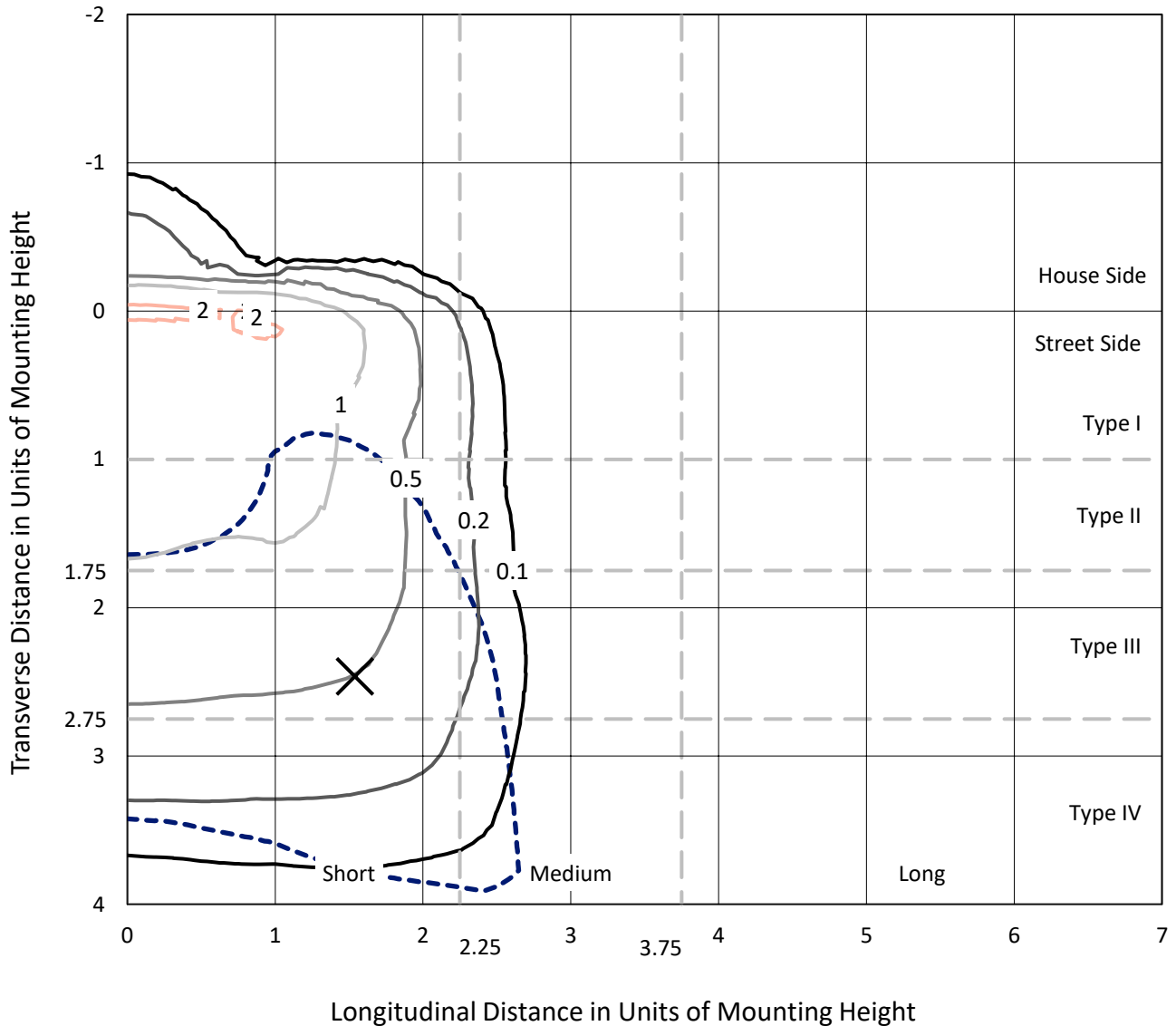
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

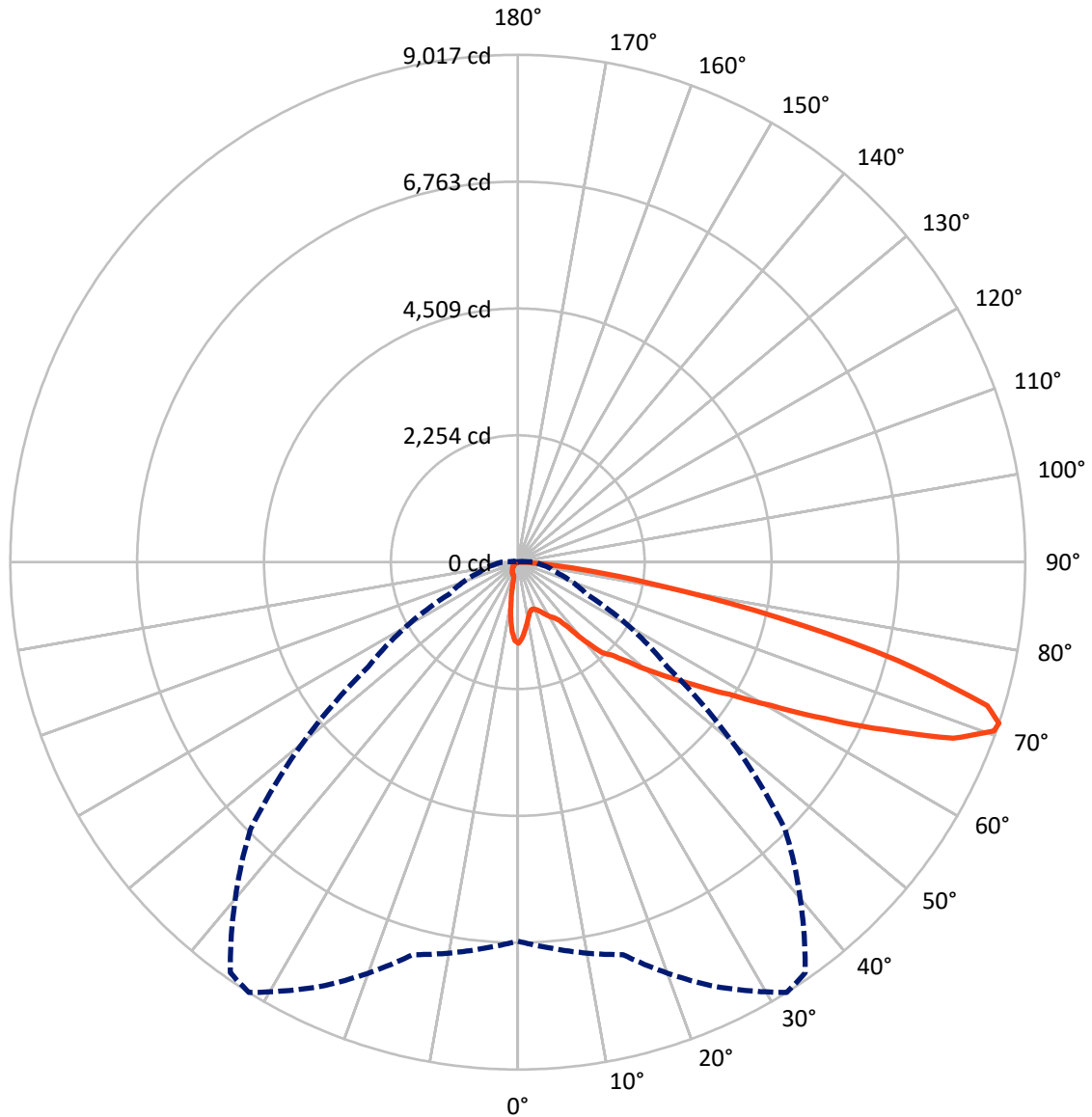
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	749.9	0.0	749.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8203.1	0.0	8203.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	8953.0	0.0	8953.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	1.3
10°-20°	254.1	2.8
20°-30°	395.3	4.4
30°-40°	658.5	7.4
40°-50°	1225.0	13.7
50°-60°	1966.8	22.0
60°-70°	2645.4	29.5
70°-80°	1569.5	17.5
80°-90°	121.3	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°	8953.0	100.0
0°-180°	8953.0	100.0

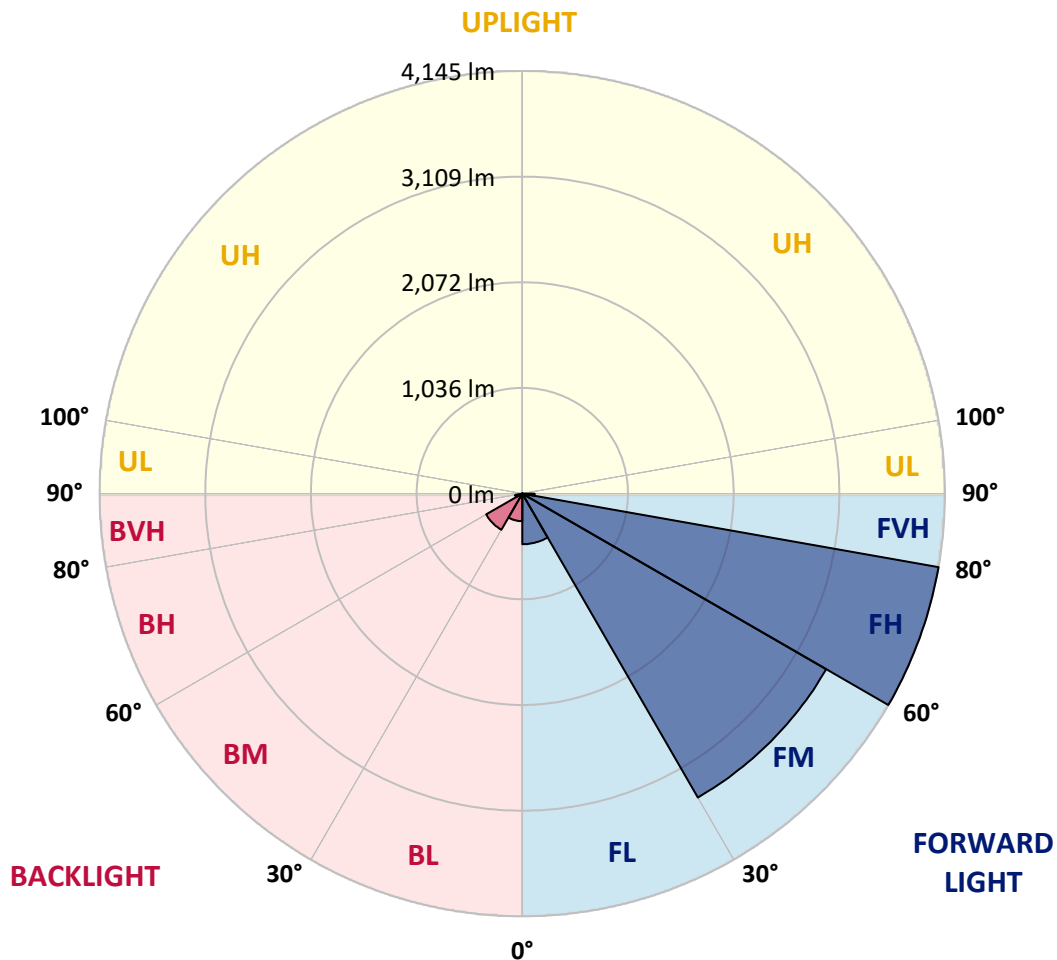


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.2	5.5			
FM (30°-60°)	3441.2	38.4			
FH (60°-80°)	4144.8	46.3			G2/5000
FVH (80°-90°)	120.9	1.3			G2/225
BL (0°-30°)	270.2	3.0	B1/500		
BM (30°-60°)	409.1	4.6	B1/1000		
BH (60°-80°)	70.1	0.8	B0/110		G0/110
BVH (80°-90°)	0.5	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°	32°	35°	45°	55°	65°	75°	85°
0°	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8
2.5°	1335.3	1349.1	1347.0	1351.8	1363.5	1368.3	1381.4	1395.8	1415.7	1429.5	1438.4
5°	1195.8	1206.1	1207.5	1231.5	1243.2	1256.3	1294.8	1336.7	1383.4	1420.5	1445.3
7.5°	1046.7	1052.2	1063.2	1094.8	1124.3	1137.4	1195.8	1268.7	1342.2	1411.6	1456.3
10°	923.7	929.8	949.8	983.5	1010.9	1028.1	1109.2	1200.6	1303.7	1406.8	1472.1
12.5°	853.6	857.0	864.6	894.8	929.8	948.4	1035.7	1140.1	1272.8	1408.9	1498.9
15°	848.7	847.4	838.4	850.8	882.4	901.7	986.9	1098.9	1245.3	1415.7	1530.5
17.5°	874.2	870.7	849.4	849.4	875.6	891.4	966.3	1076.9	1231.5	1431.5	1575.2
20°	913.4	907.9	872.8	870.1	895.5	912.0	978.6	1078.3	1234.3	1461.1	1635.0
22.5°	962.8	956.6	903.7	905.1	932.6	949.1	1014.4	1103.0	1251.5	1497.5	1698.9
25°	1027.4	1020.6	958.0	955.3	984.1	998.6	1067.3	1147.0	1275.5	1542.9	1782.7
27.5°	1113.3	1098.9	1024.0	1019.9	1050.8	1069.4	1131.2	1206.1	1318.1	1605.4	1895.4
30°	1184.1	1168.3	1096.8	1085.9	1118.8	1133.3	1197.2	1285.8	1402.0	1714.7	2051.4
32.5°	1276.9	1253.5	1169.7	1140.8	1175.9	1194.4	1292.7	1434.3	1526.4	1830.1	2237.0
35°	1485.8	1471.4	1369.0	1268.0	1265.9	1289.3	1433.6	1584.1	1654.2	2010.2	2489.9
37.5°	1784.8	1774.5	1665.9	1530.5	1491.3	1480.3	1604.7	1749.0	1858.3	2257.6	2784.0
40°	2131.8	2107.8	2008.1	1893.4	1842.5	1810.2	1806.8	1994.4	2125.0	2593.7	3090.5
42.5°	2380.6	2336.6	2215.7	2207.4	2196.4	2162.8	2065.2	2353.1	2469.3	2955.2	3418.4
45°	2641.8	2575.1	2395.1	2364.1	2360.0	2357.9	2455.5	2777.9	2844.5	3346.9	3755.1
47.5°	2844.5	2791.6	2643.8	2630.1	2647.3	2694.0	2971.7	3228.7	3214.9	3696.0	4037.6
50°	3114.6	3074.7	2910.5	2936.6	3025.3	3101.5	3553.8	3720.1	3519.4	3970.9	4243.1
52.5°	3433.5	3360.0	3207.4	3278.2	3414.2	3541.4	4171.6	4150.3	3733.1	4177.8	4396.3
55°	3709.8	3657.5	3605.3	3678.8	3882.3	4041.0	4729.6	4472.6	3888.4	4344.1	4463.7
57.5°	4177.1	4164.7	4111.1	4186.0	4432.7	4597.7	5229.3	4722.8	3988.1	4430.7	4384.6
60°	4868.5	4848.5	4748.9	4844.4	5166.0	5425.1	5689.7	4947.5	4010.8	4397.0	4157.2
62.5°	5700.0	5632.0	5546.8	5687.7	6128.9	6243.0	6123.4	5080.8	3926.2	4129.0	3608.7
65°	6476.6	6406.5	6408.6	6705.5	7185.9	7263.5	6629.2	5060.9	3678.8	3457.5	2661.7
67.5°	7071.1	7059.4	7143.2	7722.6	8350.7	8297.1	7081.4	4762.6	2945.5	2241.1	1414.4
70°	7101.3	7124.0	7364.5	8342.5	8980.3	8895.0	7042.9	3871.3	1836.3	1030.9	557.4
71°	6735.7	6888.3	7220.9	8323.2	9017.4	8906.7	6718.5	3242.4	1347.0	718.9	402.0
72.5°	5739.9	5820.3	6539.2	7833.2	8723.9	8487.5	5895.9	2272.7	862.5	439.8	230.9
75°	3161.3	3359.3	4379.1	6145.4	6977.6	6770.1	3842.4	1079.7	430.2	240.5	95.5
77.5°	1505.1	1466.6	2136.7	3654.8	4731.0	4720.0	1936.0	479.7	250.8	162.9	48.1
80°	430.2	483.8	817.8	1737.4	2626.7	2655.5	743.6	231.6	173.9	127.1	24.7
82.5°	129.9	132.6	300.3	768.3	1306.5	1231.5	279.0	118.2	125.1	101.0	14.4
85°	22.7	28.2	88.7	270.8	498.3	378.0	70.1	56.4	82.5	66.7	8.2
87.5°	1.4	2.1	29.6	30.9	44.0	25.4	12.4	8.2	17.9	17.9	4.8
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°	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8
2.5°	1444.6	1448.7	1446.0	1439.8	1429.5	1417.1	1400.6	1386.9	1375.2	1369.0	1376.6
5°	1453.5	1459.0	1445.3	1414.4	1367.6	1316.8	1259.0	1214.4	1179.3	1168.3	1164.2
7.5°	1467.3	1470.7	1433.6	1364.9	1265.9	1145.6	1040.5	951.8	883.1	862.5	832.3
10°	1485.1	1483.1	1413.0	1285.2	1111.3	930.5	767.7	646.7	555.3	522.3	519.6
12.5°	1512.6	1501.6	1386.9	1176.6	927.1	690.7	489.3	382.8	325.1	305.8	301.7
15°	1547.0	1520.9	1345.6	1049.4	709.9	446.0	301.7	269.4	261.8	260.5	259.1
17.5°	1587.5	1546.3	1291.3	893.4	498.9	289.3	252.2	251.5	252.2	250.8	250.2
20°	1642.5	1573.1	1226.7	708.6	329.9	244.0	240.5	240.5	241.2	240.5	240.5
22.5°	1700.9	1604.7	1147.0	540.9	248.8	231.6	230.9	232.3	233.7	233.0	233.0
25°	1773.1	1646.0	1041.9	370.4	222.7	221.3	222.0	224.7	227.5	228.2	227.5
27.5°	1877.6	1696.8	929.2	255.0	204.1	205.5	212.4	219.2	223.4	224.0	224.0
30°	1995.1	1753.2	782.1	206.9	189.0	189.0	197.2	210.3	219.2	220.6	221.3
32.5°	2146.3	1818.5	619.2	186.2	174.6	173.2	180.7	196.6	213.0	217.9	217.9
35°	2333.2	1895.4	460.5	173.2	164.3	160.8	164.9	178.0	199.3	213.0	214.4
37.5°	2552.4	1968.3	336.8	161.5	154.6	149.8	152.6	162.9	180.1	200.7	206.2
40°	2755.2	2032.9	251.5	151.9	145.0	141.6	143.6	148.4	162.9	182.1	185.6
42.5°	2976.5	2083.0	200.0	141.6	135.4	134.0	134.0	136.1	145.7	156.7	157.4
45°	3197.1	2100.9	167.7	129.2	125.1	126.5	125.8	124.4	128.5	127.1	127.1
47.5°	3354.5	2079.6	138.8	117.5	117.5	119.6	116.1	111.3	109.3	101.0	101.7
50°	3462.3	2002.0	114.1	103.8	109.3	112.0	105.1	97.6	90.0	81.1	79.0
52.5°	3507.0	1863.8	93.5	85.9	96.9	100.3	92.1	83.2	71.5	63.9	61.9
55°	3478.2	1693.4	77.7	70.1	81.8	85.9	77.7	67.4	54.3	46.0	44.7
57.5°	3351.0	1490.0	66.0	55.7	65.3	68.0	62.5	51.5	38.5	30.2	30.2
60°	3131.1	1279.7	53.6	44.0	48.8	52.9	47.4	37.1	26.1	18.6	17.2
62.5°	2685.1	1039.1	43.3	34.4	34.4	37.8	33.0	26.8	16.5	9.6	8.9
65°	1938.7	712.7	34.4	25.4	24.7	24.7	20.6	17.9	9.6	4.1	2.7
67.5°	1053.5	402.0	27.5	19.2	17.2	16.5	13.1	10.3	4.1	0.7	0.0
70°	414.4	154.6	21.3	13.1	11.0	10.3	6.9	4.8	2.7	0.0	0.0
71°	281.1	106.5	18.6	11.0	8.9	7.6	5.5	4.1	2.1	0.0	0.0
72.5°	160.8	66.0	14.4	8.2	6.9	5.5	4.1	2.7	2.1	0.0	0.0
75°	70.1	33.7	8.9	6.2	4.8	3.4	2.7	2.1	0.7	0.0	0.0
77.5°	35.7	18.6	6.2	4.8	2.7	2.1	1.4	0.7	0.0	0.0	0.0
80°	19.9	9.6	4.1	2.7	2.1	1.4	0.7	0.7	0.0	0.0	0.0
82.5°	11.0	5.5	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	3.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	1.4	0.0	0.0	0.0	0.0	0.7	0.7	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)