

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: P451636

Luminaire Tested: **GALN-SA2C-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451636
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-SA2C-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 9272 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

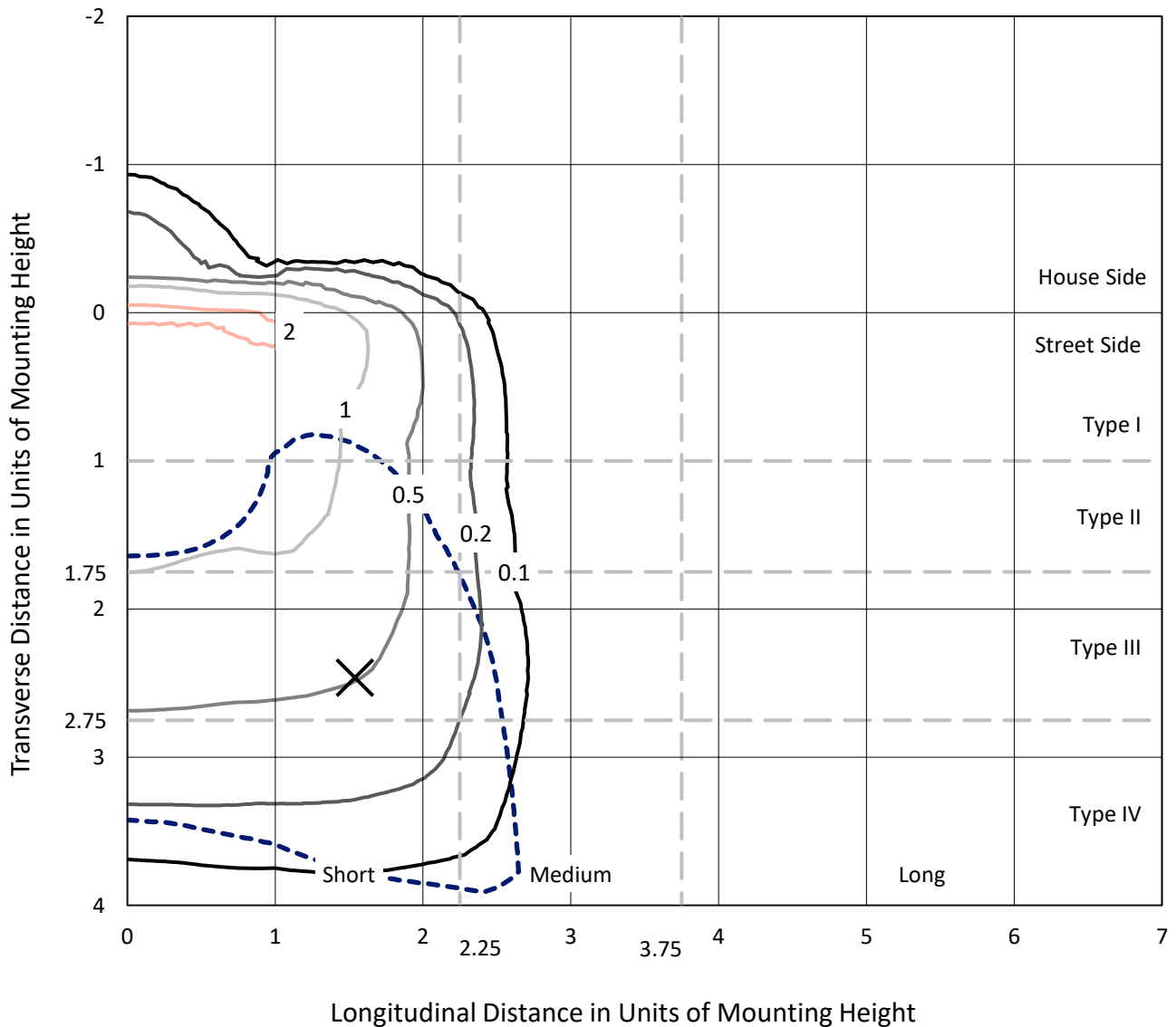
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

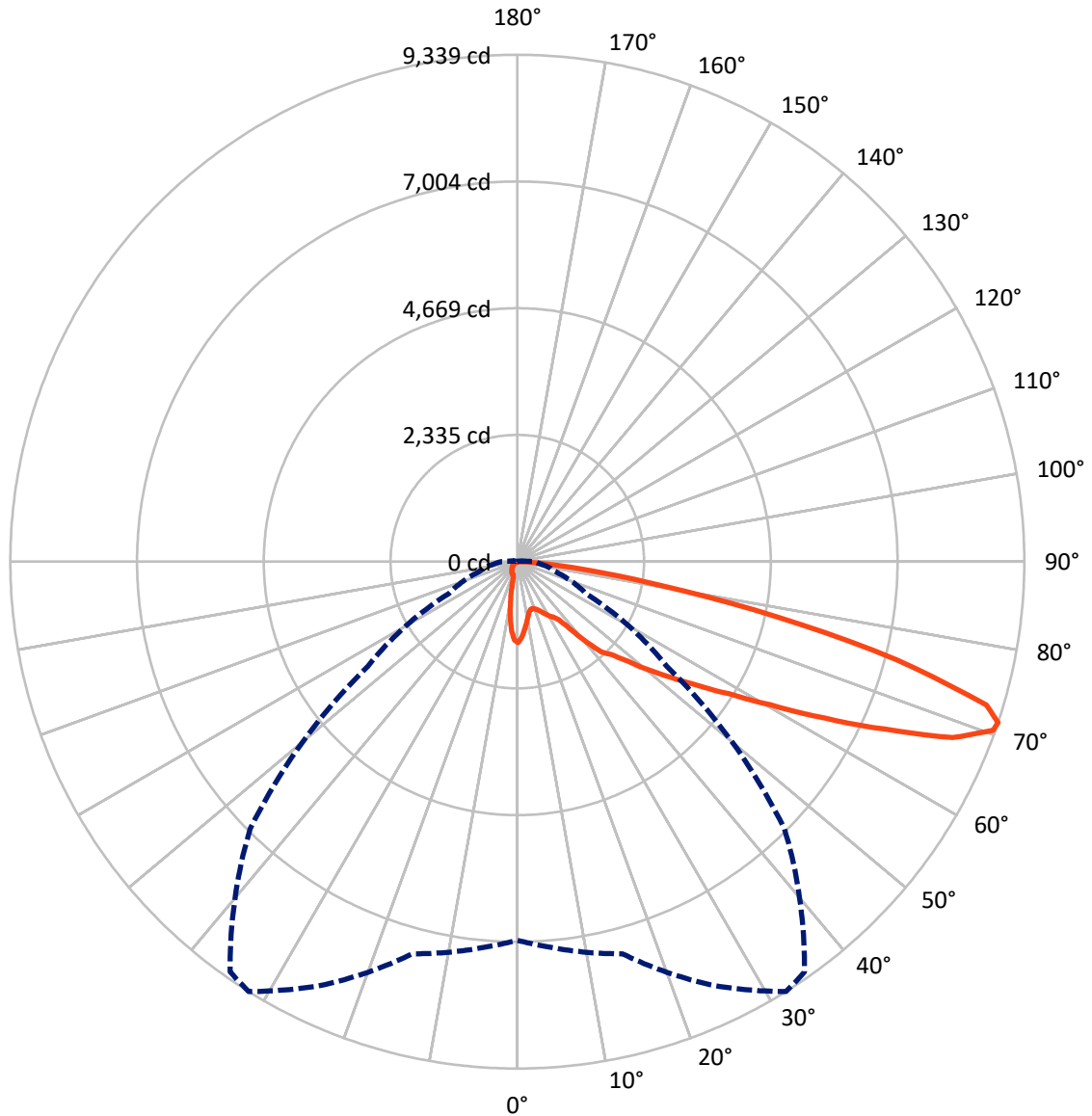
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	776.6	0.0	776.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8495.4	0.0	8495.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	9272.0	0.0	9272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	1.3
10°-20°	263.1	2.8
20°-30°	409.4	4.4
30°-40°	682.0	7.4
40°-50°	1268.6	13.7
50°-60°	2036.8	22.0
60°-70°	2739.7	29.5
70°-80°	1625.5	17.5
80°-90°	125.6	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°	9272.0	100.0
0°-180°	9272.0	100.0

Coefficient of Utilization

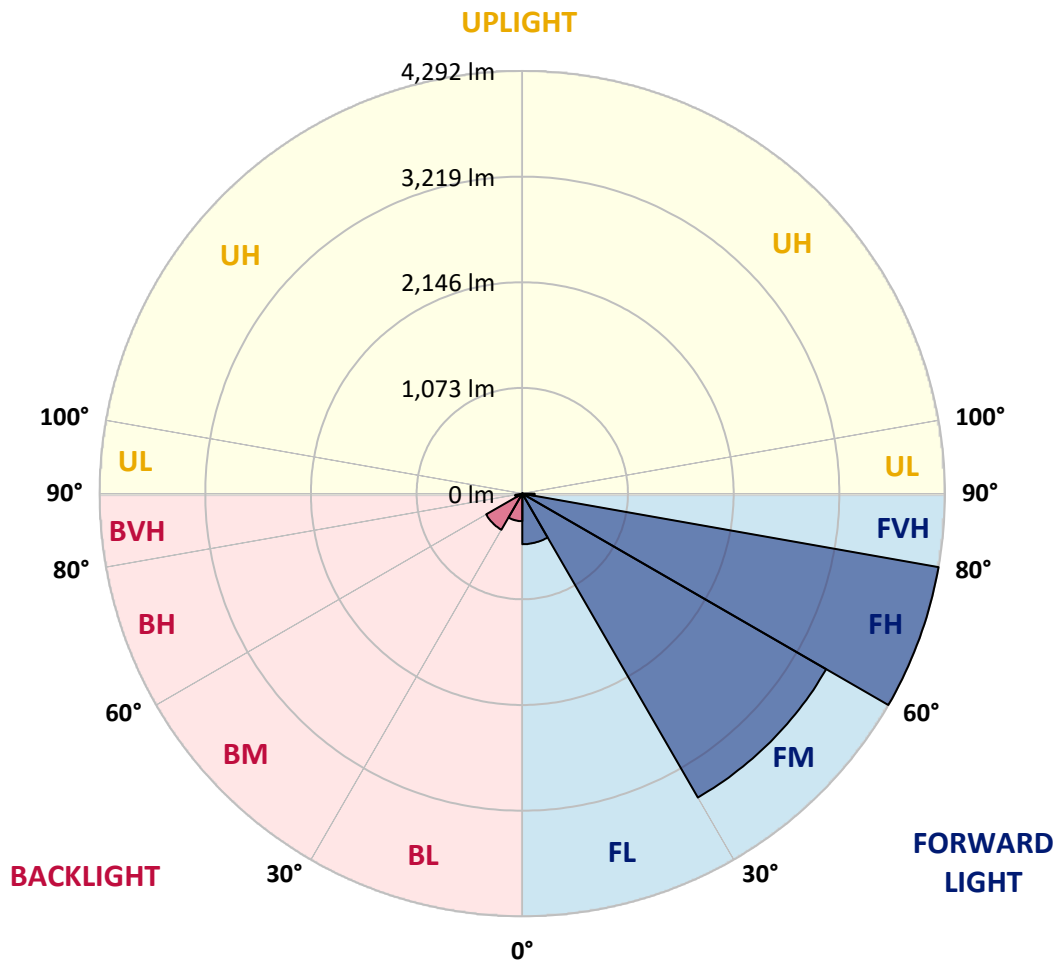


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.9	5.5			
FM	(30°-60°)	3563.8	38.4			
FH	(60°-80°)	4292.5	46.3			G2/5000
FVH	(80°-90°)	125.2	1.3			G2/225
BL	(0°-30°)	279.8	3.0	B1/500		
BM	(30°-60°)	423.7	4.6	B1/1000		
BH	(60°-80°)	72.6	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°	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1
2.5°	1382.9	1397.1	1395.0	1400.0	1412.1	1417.1	1430.6	1445.5	1466.2	1480.4	1489.7
5°	1238.4	1249.1	1250.5	1275.4	1287.5	1301.0	1340.9	1384.3	1432.7	1471.2	1496.8
7.5°	1084.0	1089.7	1101.1	1133.8	1164.4	1177.9	1238.4	1313.9	1390.0	1461.9	1508.2
10°	956.6	963.0	983.6	1018.5	1047.0	1064.8	1148.7	1243.4	1350.2	1456.9	1524.5
12.5°	884.0	887.5	895.4	926.7	963.0	982.2	1072.6	1180.8	1318.1	1459.1	1552.3
15°	879.0	877.6	868.3	881.1	913.9	933.8	1022.0	1138.1	1289.7	1466.2	1585.0
17.5°	905.3	901.8	879.7	879.7	906.7	923.1	1000.7	1115.3	1275.4	1482.5	1631.3
20°	945.9	940.2	903.9	901.1	927.4	944.5	1013.5	1116.7	1278.3	1513.1	1693.2
22.5°	997.1	990.7	935.9	937.4	965.8	982.9	1050.5	1142.3	1296.1	1550.9	1759.4
25°	1064.0	1056.9	992.2	989.3	1019.2	1034.1	1105.3	1187.9	1321.0	1597.8	1846.2
27.5°	1153.0	1138.1	1060.5	1056.2	1088.2	1107.5	1171.5	1249.1	1365.1	1662.6	1963.0
30°	1226.3	1209.9	1135.9	1124.5	1158.7	1173.6	1239.8	1331.7	1451.9	1775.8	2124.5
32.5°	1322.4	1298.2	1211.4	1181.5	1217.8	1237.0	1338.8	1485.4	1580.8	1895.3	2316.7
35°	1538.8	1523.8	1417.8	1313.1	1311.0	1335.2	1484.7	1640.5	1713.1	2081.8	2578.6
37.5°	1848.4	1837.7	1725.2	1585.0	1544.5	1533.1	1661.9	1811.4	1924.5	2338.0	2883.2
40°	2207.8	2182.9	2079.7	1960.8	1908.2	1874.7	1871.1	2065.5	2200.7	2686.1	3200.7
42.5°	2465.4	2419.9	2294.6	2286.1	2274.7	2239.8	2138.8	2437.0	2557.3	3060.5	3540.2
45°	2735.9	2666.9	2480.4	2448.4	2444.1	2442.0	2543.0	2876.8	2945.9	3466.1	3888.9
47.5°	2945.9	2891.1	2738.0	2723.8	2741.6	2790.0	3077.5	3343.7	3329.5	3827.7	4181.4
50°	3225.6	3184.3	3014.2	3041.2	3133.1	3212.1	3680.4	3852.6	3644.8	4112.4	4394.2
52.5°	3555.8	3479.7	3321.7	3395.0	3535.9	3667.6	4320.2	4298.2	3866.1	4326.6	4553.0
55°	3841.9	3787.8	3733.8	3809.9	4020.6	4185.0	4898.2	4632.0	4027.0	4498.9	4622.7
57.5°	4325.9	4313.1	4257.6	4335.2	4590.7	4761.5	5415.6	4891.0	4130.2	4588.5	4540.9
60°	5041.9	5021.3	4918.1	5017.0	5350.1	5618.4	5892.4	5123.8	4153.7	4553.7	4305.3
62.5°	5903.1	5832.7	5744.4	5890.3	6347.2	6465.4	6341.5	5261.8	4066.1	4276.1	3737.3
65°	6707.4	6634.8	6636.9	6944.4	7441.9	7522.3	6865.4	5241.2	3809.9	3580.7	2756.5
67.5°	7323.0	7310.9	7397.8	7997.8	8648.3	8592.8	7333.7	4932.3	3050.5	2321.0	1464.7
70°	7354.3	7377.8	7626.9	8639.7	9300.2	9212.0	7293.8	4009.2	1901.8	1067.6	577.2
71°	6975.7	7133.7	7478.2	8619.8	9338.7	9224.1	6957.9	3358.0	1395.0	744.5	416.4
72.5°	5944.4	6027.7	6772.1	8112.3	9034.7	8789.9	6106.0	2353.7	893.2	455.5	239.1
75°	3274.0	3479.0	4535.2	6364.3	7226.2	7011.3	3979.3	1118.1	445.5	249.1	98.9
77.5°	1558.7	1518.8	2212.8	3785.0	4899.6	4888.2	2005.0	496.8	259.8	168.7	49.8
80°	445.5	501.1	847.0	1799.3	2720.2	2750.1	770.1	239.9	180.1	131.7	25.6
82.5°	134.5	137.4	311.0	795.7	1353.0	1275.4	289.0	122.4	129.5	104.6	14.9
85°	23.5	29.2	91.8	280.4	516.0	391.5	72.6	58.4	85.4	69.0	8.5
87.5°	1.4	2.1	30.6	32.0	45.6	26.3	12.8	8.5	18.5	18.5	5.0
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°	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1
2.5°	1496.1	1500.3	1497.5	1491.1	1480.4	1467.6	1450.5	1436.3	1424.2	1417.8	1425.6
5°	1505.3	1511.0	1496.8	1464.7	1416.4	1363.7	1303.9	1257.6	1221.3	1209.9	1205.7
7.5°	1519.6	1523.1	1484.7	1413.5	1311.0	1186.5	1077.6	985.8	914.6	893.2	861.9
10°	1538.1	1535.9	1463.3	1330.9	1150.9	963.7	795.0	669.7	575.1	540.9	538.1
12.5°	1566.5	1555.1	1436.3	1218.5	960.1	715.3	506.8	396.4	336.7	316.7	312.5
15°	1602.1	1575.1	1393.6	1086.8	735.2	461.9	312.5	279.0	271.2	269.7	268.3
17.5°	1644.1	1601.4	1337.3	925.3	516.7	299.6	261.2	260.5	261.2	259.8	259.1
20°	1701.0	1629.2	1270.4	733.8	341.6	252.7	249.1	249.1	249.8	249.1	249.1
22.5°	1761.5	1661.9	1187.9	560.1	257.6	239.9	239.1	240.6	242.0	241.3	241.3
25°	1836.3	1704.6	1079.0	383.6	230.6	229.2	229.9	232.7	235.6	236.3	235.6
27.5°	1944.5	1757.3	962.3	264.1	211.4	212.8	219.9	227.0	231.3	232.0	232.0
30°	2066.2	1815.6	810.0	214.2	195.7	195.7	204.3	217.8	227.0	228.5	229.2
32.5°	2222.7	1883.2	641.3	192.9	180.8	179.4	187.2	203.6	220.6	225.6	225.6
35°	2416.3	1963.0	476.9	179.4	170.1	166.5	170.8	184.3	206.4	220.6	222.1
37.5°	2643.4	2038.4	348.7	167.3	160.1	155.2	158.0	168.7	186.5	207.8	213.5
40°	2853.3	2105.3	260.5	157.3	150.2	146.6	148.8	153.7	168.7	188.6	192.2
42.5°	3082.5	2157.3	207.1	146.6	140.2	138.8	138.8	140.9	150.9	162.3	163.0
45°	3311.0	2175.8	173.7	133.8	129.5	131.0	130.2	128.8	133.1	131.7	131.7
47.5°	3474.0	2153.7	143.8	121.7	121.7	123.8	120.3	115.3	113.2	104.6	105.3
50°	3585.7	2073.3	118.1	107.5	113.2	116.0	108.9	101.1	93.2	84.0	81.8
52.5°	3632.0	1930.2	96.8	89.0	100.4	103.9	95.4	86.1	74.0	66.2	64.1
55°	3602.1	1753.7	80.4	72.6	84.7	89.0	80.4	69.7	56.2	47.7	46.3
57.5°	3470.4	1543.0	68.3	57.7	67.6	70.5	64.8	53.4	39.9	31.3	31.3
60°	3242.7	1325.2	55.5	45.6	50.5	54.8	49.1	38.4	27.0	19.2	17.8
62.5°	2780.7	1076.1	44.8	35.6	35.6	39.1	34.2	27.8	17.1	10.0	9.3
65°	2007.8	738.1	35.6	26.3	25.6	25.6	21.4	18.5	10.0	4.3	2.8
67.5°	1091.1	416.4	28.5	19.9	17.8	17.1	13.5	10.7	4.3	0.7	0.0
70°	429.2	160.1	22.1	13.5	11.4	10.7	7.1	5.0	2.8	0.0	0.0
71°	291.1	110.3	19.2	11.4	9.3	7.8	5.7	4.3	2.1	0.0	0.0
72.5°	166.5	68.3	14.9	8.5	7.1	5.7	4.3	2.8	2.1	0.0	0.0
75°	72.6	34.9	9.3	6.4	5.0	3.6	2.8	2.1	0.7	0.0	0.0
77.5°	37.0	19.2	6.4	5.0	2.8	2.1	1.4	0.7	0.0	0.0	0.0
80°	20.6	10.0	4.3	2.8	2.1	1.4	0.7	0.7	0.0	0.0	0.0
82.5°	11.4	5.7	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.1	3.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	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)