

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: P452303

Luminaire Tested: **GALN-SA3B-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452303
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-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 10230 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

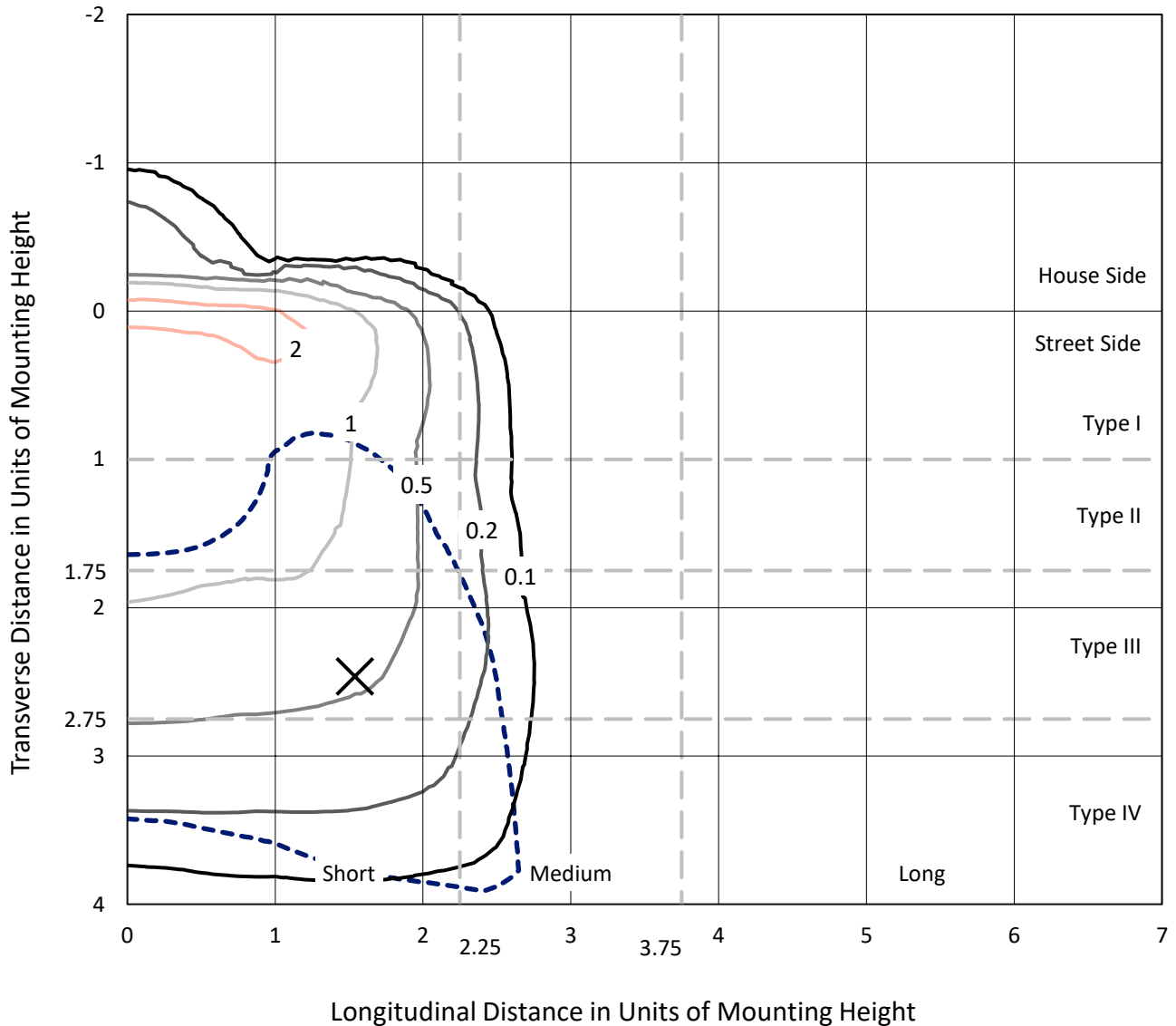
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452303
 CATALOG NUMBER: GALN-SA3B-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

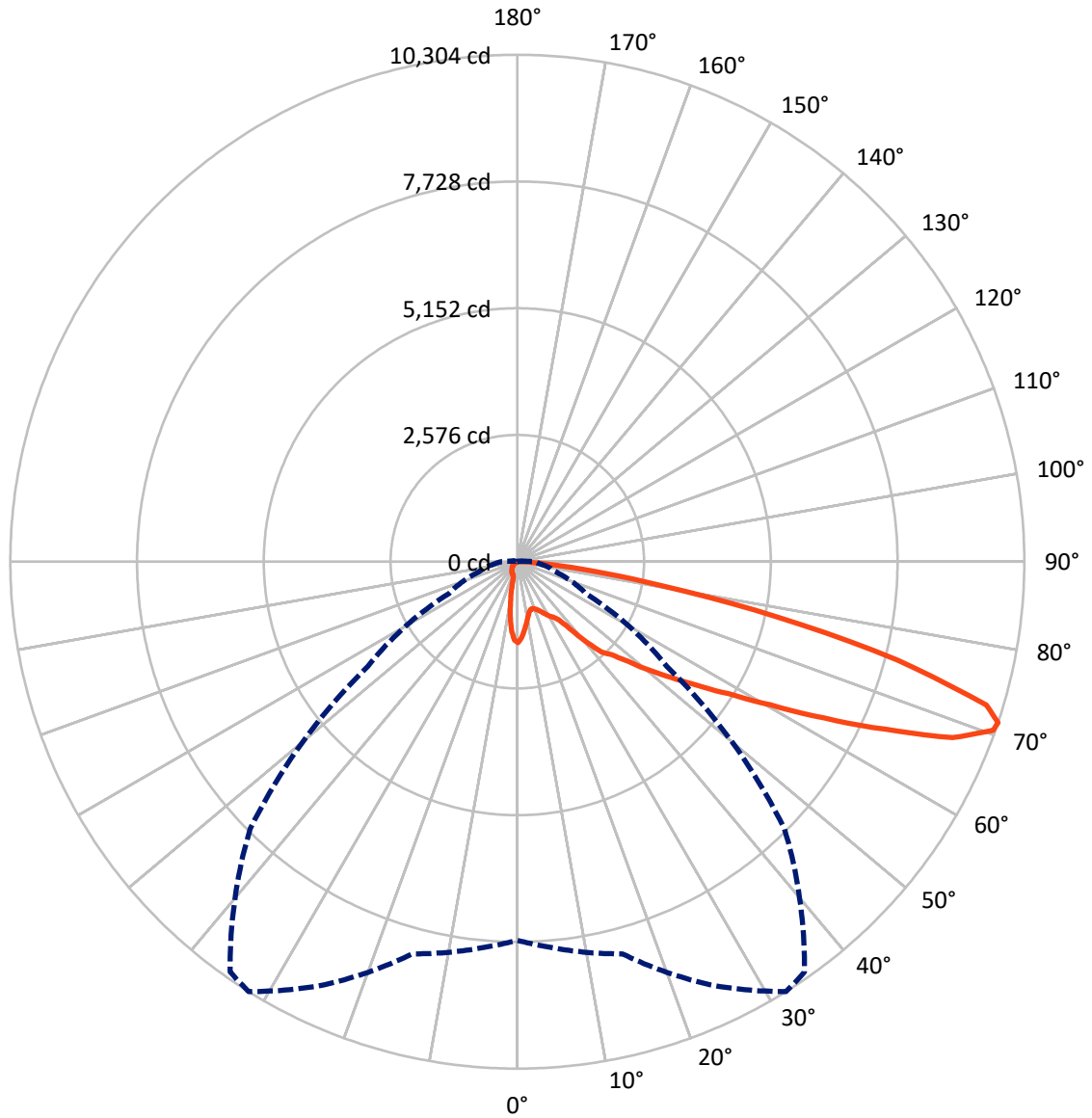
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P452303
CATALOG NUMBER: GALN-SA3B-727-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452303
 CATALOG NUMBER: GALN-SA3B-727-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	856.9	0.0	856.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	9373.1	0.0	9373.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	10230.0	0.0	10230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	1.3
10°-20°	290.3	2.8
20°-30°	451.7	4.4
30°-40°	752.5	7.4
40°-50°	1399.7	13.7
50°-60°	2247.3	22.0
60°-70°	3022.7	29.5
70°-80°	1793.4	17.5
80°-90°	138.6	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°	10230.0	100.0
0°-180°	10230.0	100.0

Coefficient of Utilization

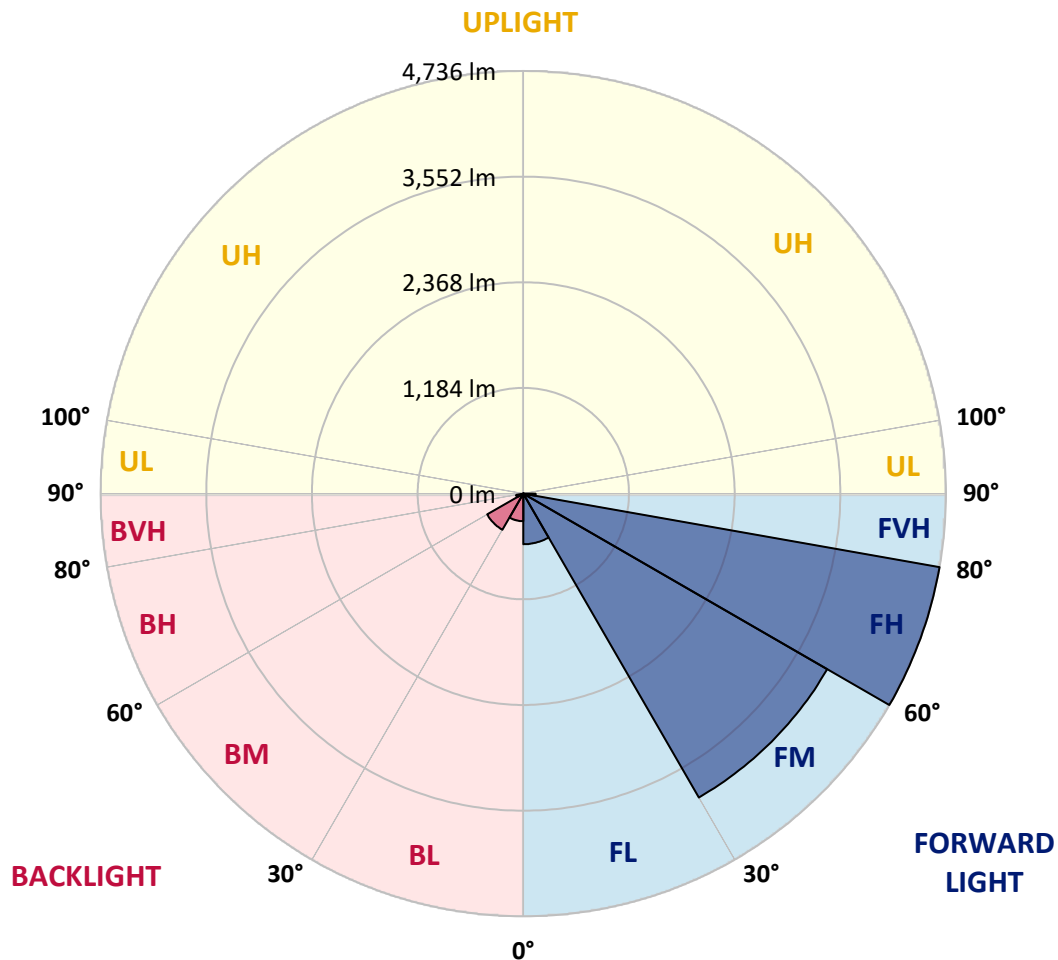


REPORT NUMBER: P452303
 CATALOG NUMBER: GALN-SA3B-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.0	5.5			
FM (30°-60°)	3932.0	38.4			
FH (60°-80°)	4736.0	46.3			G2/5000
FVH (80°-90°)	138.1	1.3			G2/225
BL (0°-30°)	308.7	3.0	B1/500		
BM (30°-60°)	467.4	4.6	B1/1000		
BH (60°-80°)	80.1	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





REPORT NUMBER: P452303

CATALOG NUMBER: GALN-SA3B-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1645.1	1645.1	1645.1	1645.1	1645.1	1645.1	1645.1	1645.1	1645.1	1645.1	1645.1
2.5°	1525.8	1541.5	1539.1	1544.6	1558.0	1563.5	1578.4	1594.9	1617.7	1633.4	1643.6
5°	1366.4	1378.2	1379.7	1407.2	1420.6	1435.5	1479.5	1527.4	1580.8	1623.2	1651.4
7.5°	1196.0	1202.3	1214.8	1250.9	1284.7	1299.6	1366.4	1449.6	1533.6	1612.9	1664.0
10°	1055.4	1062.5	1085.2	1123.7	1155.1	1174.8	1267.4	1371.9	1489.7	1607.5	1682.1
12.5°	975.3	979.2	987.9	1022.4	1062.5	1083.7	1183.4	1302.8	1454.3	1609.8	1712.7
15°	969.8	968.2	958.0	972.2	1008.3	1030.3	1127.6	1255.6	1422.9	1617.7	1748.8
17.5°	998.9	994.9	970.6	970.6	1000.4	1018.5	1104.1	1230.5	1407.2	1635.7	1799.8
20°	1043.6	1037.3	997.3	994.2	1023.2	1042.1	1118.2	1232.1	1410.3	1669.5	1868.2
22.5°	1100.2	1093.1	1032.6	1034.2	1065.6	1084.5	1159.1	1260.4	1430.0	1711.1	1941.2
25°	1174.0	1166.1	1094.7	1091.5	1124.5	1141.0	1219.5	1310.6	1457.5	1762.9	2037.0
27.5°	1272.1	1255.6	1170.1	1165.3	1200.7	1221.9	1292.6	1378.2	1506.2	1834.4	2165.8
30°	1353.0	1335.0	1253.3	1240.7	1278.4	1294.9	1367.9	1469.2	1602.0	1959.3	2344.0
32.5°	1459.0	1432.3	1336.5	1303.6	1343.6	1364.8	1477.1	1638.9	1744.1	2091.2	2556.1
35°	1697.8	1681.3	1564.3	1448.8	1446.5	1473.2	1638.1	1810.1	1890.1	2296.9	2845.0
37.5°	2039.4	2027.6	1903.5	1748.8	1704.0	1691.5	1833.6	1998.5	2123.4	2579.6	3181.1
40°	2435.9	2408.4	2294.6	2163.4	2105.3	2068.4	2064.5	2278.9	2428.1	2963.6	3531.4
42.5°	2720.2	2669.9	2531.7	2522.3	2509.7	2471.2	2359.7	2688.8	2821.5	3376.7	3905.9
45°	3018.6	2942.4	2736.7	2701.3	2696.6	2694.3	2805.8	3174.1	3250.2	3824.3	4290.7
47.5°	3250.2	3189.8	3020.9	3005.2	3024.9	3078.3	3395.5	3689.2	3673.5	4223.2	4613.5
50°	3558.9	3513.3	3325.6	3355.5	3456.8	3543.9	4060.6	4250.7	4021.4	4537.3	4848.3
52.5°	3923.2	3839.2	3664.9	3745.7	3901.2	4046.5	4766.6	4742.3	4265.6	4773.7	5023.4
55°	4238.9	4179.2	4119.5	4203.6	4436.0	4617.4	5404.2	5110.5	4443.1	4963.7	5100.3
57.5°	4772.9	4758.7	4697.5	4783.1	5065.0	5253.5	5975.1	5396.4	4556.9	5062.6	5010.0
60°	5562.9	5540.1	5426.2	5535.4	5902.9	6198.9	6501.3	5653.2	4582.8	5024.2	4750.1
62.5°	6513.0	6435.3	6337.9	6498.9	7003.1	7133.4	6996.8	5805.5	4486.3	4717.9	4123.5
65°	7400.4	7320.3	7322.7	7661.9	8210.8	8299.5	7574.7	5782.7	4203.6	3950.7	3041.4
67.5°	8079.7	8066.3	8162.1	8824.1	9541.8	9480.6	8091.4	5441.9	3365.7	2560.8	1616.1
70°	8114.2	8140.1	8415.0	9532.4	10261.1	10163.8	8047.5	4423.4	2098.2	1177.9	636.9
71°	7696.4	7870.8	8250.8	9510.4	10303.5	10177.1	7676.8	3704.9	1539.1	821.4	459.4
72.5°	6558.6	6650.5	7471.9	8950.5	9968.2	9698.1	6736.8	2596.9	985.5	502.6	263.9
75°	3612.2	3838.4	5003.7	7021.9	7972.9	7735.7	4390.5	1233.7	491.6	274.8	109.2
77.5°	1719.7	1675.8	2441.4	4176.1	5405.8	5393.2	2212.1	548.1	286.6	186.1	55.0
80°	491.6	552.8	934.5	1985.2	3001.3	3034.3	849.7	264.6	198.7	145.3	28.3
82.5°	148.4	151.6	343.2	877.9	1492.8	1407.2	318.8	135.1	142.9	115.4	16.5
85°	25.9	32.2	101.3	309.4	569.3	431.9	80.1	64.4	94.2	76.2	9.4
87.5°	1.6	2.4	33.8	35.3	50.3	29.1	14.1	9.4	20.4	20.4	5.5
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: P452303

CATALOG NUMBER: GALN-SA3B-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1645.1	1645.1	1645.1	1645.1	1645.1	1645.1	1645.1	1645.1	1645.1	1645.1	1645.1
2.5°	1650.6	1655.4	1652.2	1645.1	1633.4	1619.2	1600.4	1584.7	1571.3	1564.3	1572.9
5°	1660.8	1667.1	1651.4	1616.1	1562.7	1504.6	1438.6	1387.6	1347.5	1335.0	1330.2
7.5°	1676.6	1680.5	1638.1	1559.5	1446.5	1309.0	1188.9	1087.6	1009.1	985.5	951.0
10°	1697.0	1694.6	1614.5	1468.5	1269.8	1063.3	877.1	738.9	634.5	596.8	593.7
12.5°	1728.4	1715.8	1584.7	1344.4	1059.3	789.2	559.1	437.4	371.4	349.4	344.7
15°	1767.6	1737.8	1537.6	1199.1	811.2	509.6	344.7	307.8	299.2	297.6	296.0
17.5°	1814.0	1766.9	1475.5	1020.9	570.1	330.6	288.2	287.4	288.2	286.6	285.8
20°	1876.8	1797.5	1401.7	809.6	376.9	278.8	274.8	274.8	275.6	274.8	274.8
22.5°	1943.5	1833.6	1310.6	618.0	284.3	264.6	263.9	265.4	267.0	266.2	266.2
25°	2026.0	1880.7	1190.5	423.3	254.4	252.9	253.6	256.8	259.9	260.7	259.9
27.5°	2145.4	1938.8	1061.7	291.3	233.2	234.8	242.6	250.5	255.2	256.0	256.0
30°	2279.6	2003.2	893.6	236.4	215.9	215.9	225.4	240.3	250.5	252.1	252.9
32.5°	2452.4	2077.8	707.5	212.8	199.5	197.9	206.5	224.6	243.4	248.9	248.9
35°	2666.0	2165.8	526.1	197.9	187.7	183.8	188.5	203.4	227.7	243.4	245.0
37.5°	2916.5	2249.0	384.8	184.5	176.7	171.2	174.3	186.1	205.7	229.3	235.6
40°	3148.2	2322.8	287.4	173.5	165.7	161.8	164.1	169.6	186.1	208.1	212.0
42.5°	3401.0	2380.2	228.5	161.8	154.7	153.1	153.1	155.5	166.5	179.0	179.8
45°	3653.1	2400.6	191.6	147.6	142.9	144.5	143.7	142.1	146.8	145.3	145.3
47.5°	3832.9	2376.2	158.6	134.3	134.3	136.6	132.7	127.2	124.9	115.4	116.2
50°	3956.2	2287.5	130.4	118.6	124.9	128.0	120.1	111.5	102.9	92.7	90.3
52.5°	4007.2	2129.7	106.8	98.2	110.7	114.6	105.2	95.0	81.7	73.0	70.7
55°	3974.3	1934.9	88.7	80.1	93.4	98.2	88.7	77.0	62.0	52.6	51.0
57.5°	3829.0	1702.5	75.4	63.6	74.6	77.7	71.5	58.9	44.0	34.6	34.6
60°	3577.7	1462.2	61.3	50.3	55.8	60.5	54.2	42.4	29.8	21.2	19.6
62.5°	3068.1	1187.3	49.5	39.3	39.3	43.2	37.7	30.6	18.8	11.0	10.2
65°	2215.3	814.3	39.3	29.1	28.3	28.3	23.6	20.4	11.0	4.7	3.1
67.5°	1203.8	459.4	31.4	22.0	19.6	18.8	14.9	11.8	4.7	0.8	0.0
70°	473.5	176.7	24.3	14.9	12.6	11.8	7.9	5.5	3.1	0.0	0.0
71°	321.2	121.7	21.2	12.6	10.2	8.6	6.3	4.7	2.4	0.0	0.0
72.5°	183.8	75.4	16.5	9.4	7.9	6.3	4.7	3.1	2.4	0.0	0.0
75°	80.1	38.5	10.2	7.1	5.5	3.9	3.1	2.4	0.8	0.0	0.0
77.5°	40.8	21.2	7.1	5.5	3.1	2.4	1.6	0.8	0.0	0.0	0.0
80°	22.8	11.0	4.7	3.1	2.4	1.6	0.8	0.8	0.0	0.0	0.0
82.5°	12.6	6.3	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.9	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	1.6	0.0	0.0	0.0	0.0	0.8	0.8	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)