

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: P650881

Luminaire Tested: **GALN-SA4C-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16920.1 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

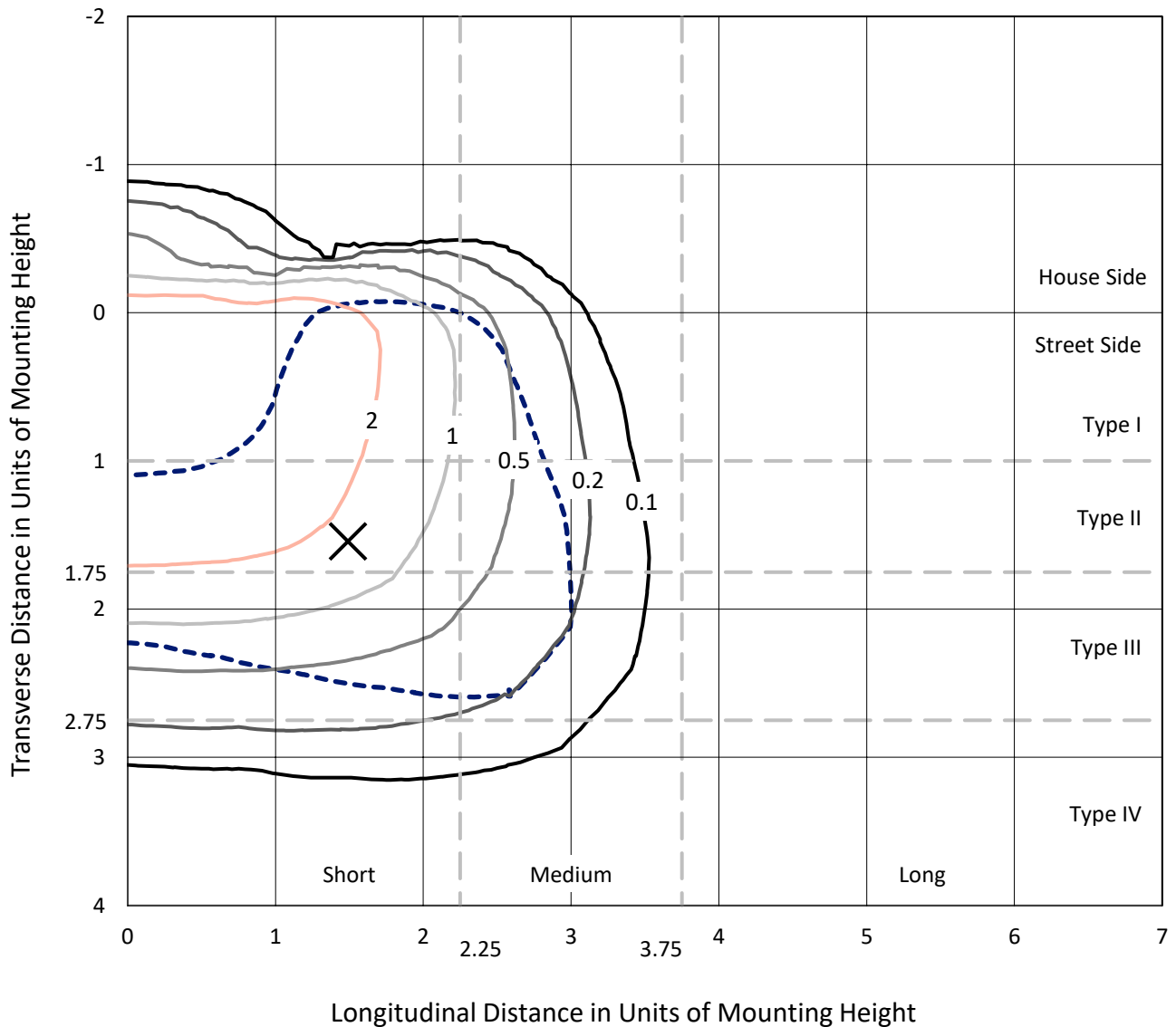
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650881
 CATALOG NUMBER: GALN-SA4C-840-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

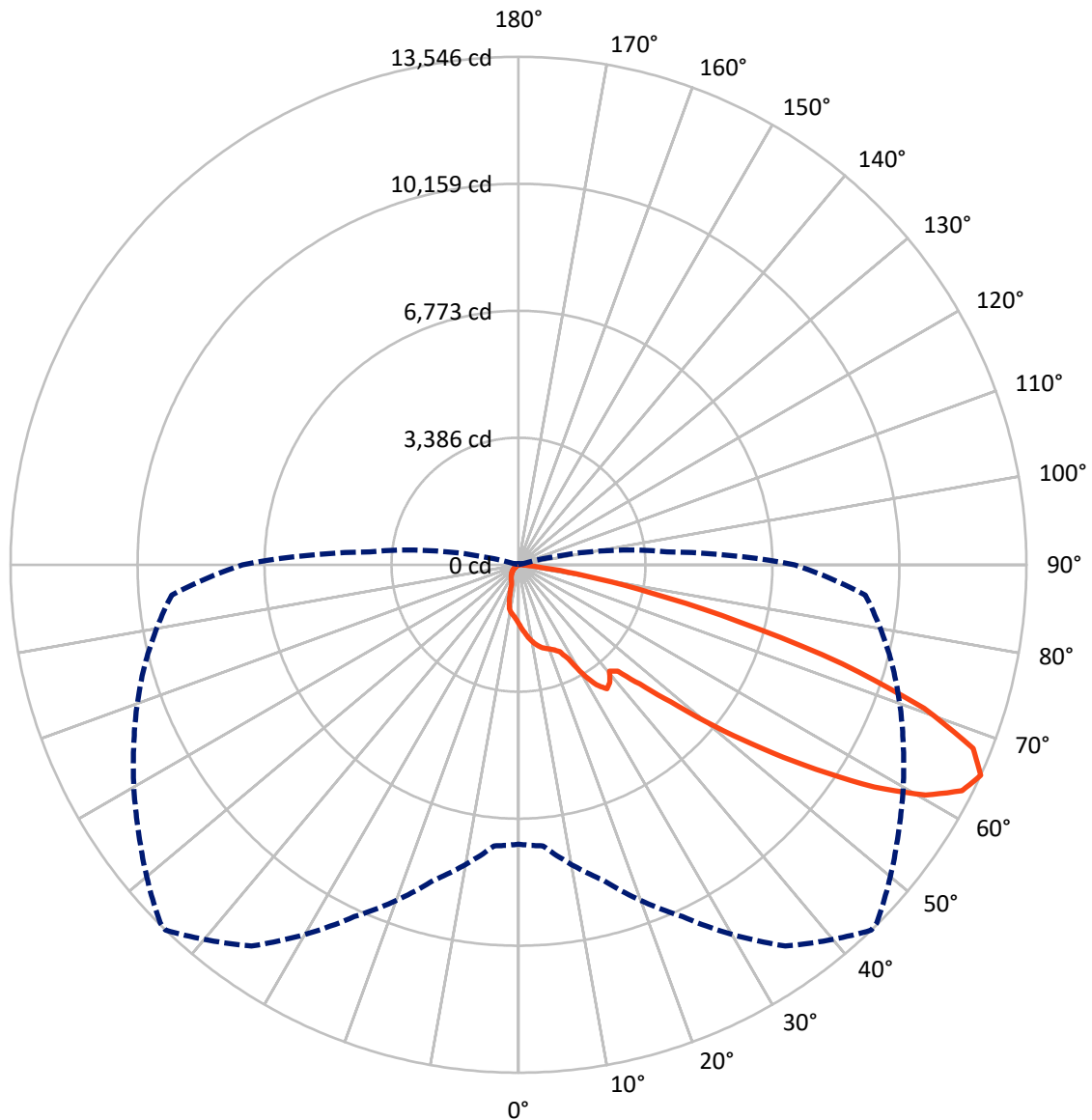
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

REPORT NUMBER: P650881
CATALOG NUMBER: GALN-SA4C-840-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1558.9	0.0	1558.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	15361.1	0.0	15361.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	16920.1	0.0	16920.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	0.9
10°-20°	471.4	2.8
20°-30°	799.3	4.7
30°-40°	1329.0	7.9
40°-50°	2320.4	13.7
50°-60°	4533.3	26.8
60°-70°	5259.7	31.1
70°-80°	1915.3	11.3
80°-90°	134.9	0.8
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°	16920.1	100.0
0°-180°	16920.1	100.0

Coefficient of Utilization



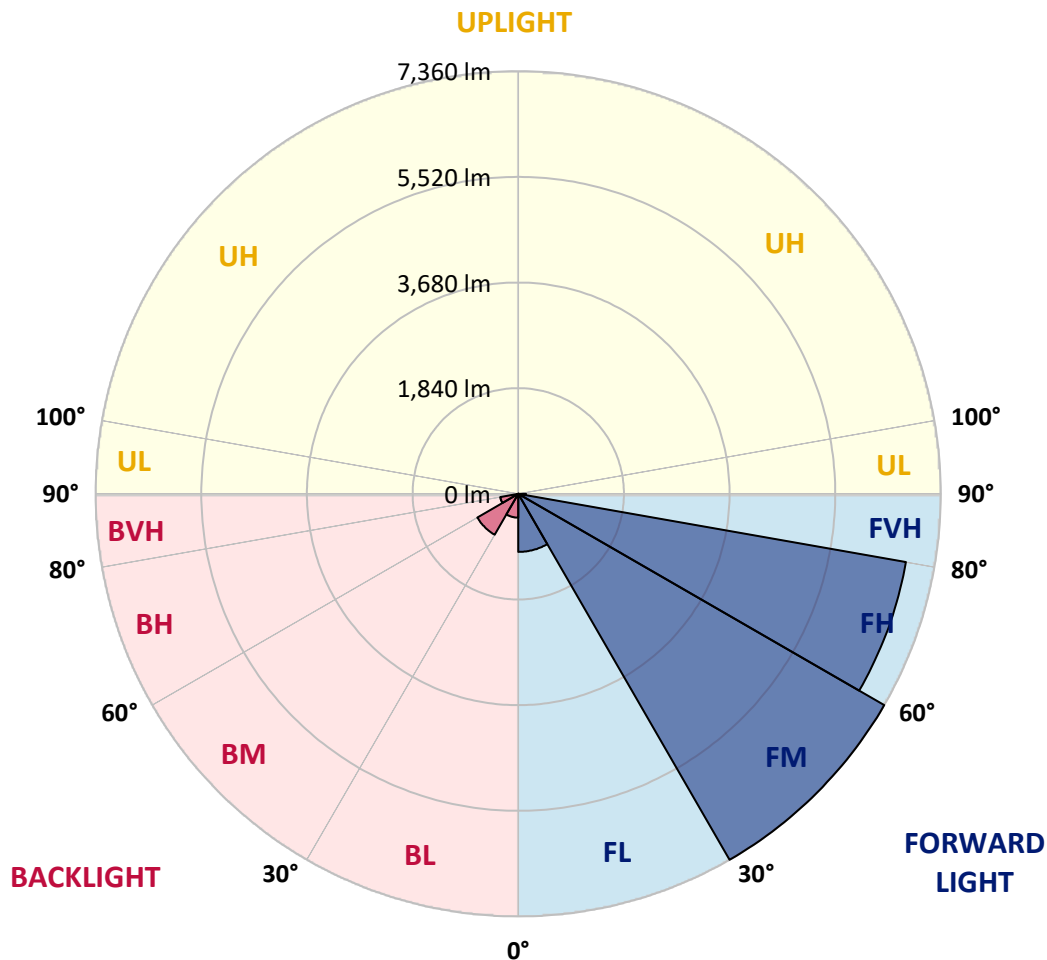
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.0	6.0			
FM (30°-60°)	7360.3	43.5			
FH (60°-80°)	6855.8	40.5			G3/7500
FVH (80°-90°)	133.1	0.8			G2/225
BL (0°-30°)	415.4	2.5	B1/500		
BM (30°-60°)	822.5	4.9	B1/1000		
BH (60°-80°)	319.2	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	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 III Short





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CATALOG NUMBER: GALN-SA4C-840-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1574.8	1574.8	1574.8	1574.8	1574.8	1574.8	1574.8	1574.8	1574.8	1574.8	1574.8
2.5°	1772.6	1764.8	1761.0	1740.3	1724.7	1705.4	1705.4	1680.7	1652.3	1621.3	1592.9
5°	1970.4	1957.4	1940.6	1922.5	1886.4	1834.6	1834.6	1782.9	1723.5	1670.4	1612.3
7.5°	2160.4	2148.8	2120.3	2085.4	2026.0	1971.6	1967.8	1892.8	1821.7	1741.5	1658.8
10°	2327.2	2318.1	2293.6	2226.4	2164.3	2093.2	2091.9	2007.9	1925.1	1826.9	1724.7
12.5°	2443.6	2444.9	2412.6	2347.9	2267.8	2200.6	2195.3	2112.6	2026.0	1919.9	1794.5
15°	2526.4	2526.4	2492.7	2420.3	2347.9	2288.4	2283.2	2210.8	2121.7	2006.6	1870.8
17.5°	2549.6	2557.4	2521.1	2456.5	2398.4	2346.6	2345.3	2284.6	2213.4	2102.2	1948.4
20°	2540.6	2548.3	2519.9	2469.4	2429.4	2399.6	2395.8	2371.2	2305.3	2200.6	2031.2
22.5°	2521.1	2528.9	2508.2	2478.5	2459.1	2468.2	2461.7	2482.4	2447.5	2320.7	2129.4
25°	2525.0	2532.8	2517.3	2500.5	2517.3	2572.9	2589.7	2678.9	2647.9	2473.3	2235.5
27.5°	2646.5	2662.1	2640.1	2647.9	2707.3	2836.6	2869.0	3022.8	2885.7	2667.2	2400.9
30°	2916.8	2906.4	2865.0	2902.5	3109.4	3383.5	3374.5	3349.9	3135.2	2890.9	2597.4
32.5°	3162.4	3153.4	3150.8	3312.4	3687.4	3820.5	3814.1	3576.2	3359.0	3146.9	2791.4
35°	3262.0	3227.1	3219.3	3611.1	4238.1	4062.3	4022.3	3669.3	3630.4	3426.1	2989.2
37.5°	3562.0	3537.4	3417.2	3660.2	4018.3	3960.2	3929.2	3829.6	3920.1	3673.2	3212.9
40°	4179.9	4111.4	4002.8	3764.9	3706.8	3731.3	3762.4	4035.1	4262.7	4010.6	3511.5
42.5°	4947.9	4932.4	4730.7	4287.2	3851.5	3885.2	3925.3	4464.4	4755.3	4518.7	3999.0
45°	5869.8	5891.8	5600.9	5077.2	4505.7	4534.2	4592.4	5097.9	5422.4	5308.6	4765.6
47.5°	6707.6	6690.7	6592.5	6048.2	5520.7	5457.3	5551.7	5911.1	6345.6	6363.7	5717.2
50°	7550.6	7639.7	7493.6	7280.4	6888.5	6755.4	6720.5	6896.4	7558.3	7471.7	6860.1
52.5°	8762.0	8808.5	8534.5	8480.1	8569.4	8137.5	8102.6	8145.3	8737.4	8440.0	7716.0
55°	9523.5	9496.4	9394.2	9818.3	10171.2	9632.1	9588.2	9416.2	9716.2	9124.0	8539.6
57.5°	9764.0	9802.8	10040.7	10807.4	11642.6	11184.9	11104.7	10616.0	10422.1	9761.4	9297.3
60°	9656.7	9727.8	10241.1	11381.4	12539.9	12471.4	12402.8	11581.8	10928.9	10294.1	9828.7
62.5°	8892.6	8992.1	9813.1	11279.2	12843.7	13271.7	13186.3	12184.3	11266.4	10552.7	9921.7
65°	7452.3	7526.0	8705.1	10352.3	12411.9	13545.7	13514.7	12373.0	11319.4	10316.0	9284.3
67.5°	5312.5	5563.4	6655.8	8724.5	11134.5	13077.7	13130.7	12146.8	10821.6	9293.4	7688.9
70°	3339.5	3510.2	4293.7	6246.0	8926.2	11473.2	11647.8	11111.2	9391.6	7244.1	5147.0
72.5°	1592.9	1719.6	2278.1	3953.7	6300.4	9027.0	9165.4	9121.4	7262.2	4563.9	2655.6
75°	709.8	757.7	1087.3	2018.2	4067.5	6067.6	6425.7	6485.2	4538.1	2232.9	1033.0
77.5°	362.1	363.3	509.4	977.4	2031.2	3620.1	3691.2	3899.4	2460.4	983.9	359.4
80°	192.7	205.5	270.2	461.5	1053.7	1782.9	1773.8	1949.7	1091.2	482.2	120.3
82.5°	86.6	95.7	152.6	241.8	514.6	676.2	729.2	797.7	468.0	307.7	53.0
85°	25.8	31.0	75.0	121.5	186.2	195.2	218.5	281.8	265.1	218.5	27.2
87.5°	3.9	3.9	31.0	33.6	27.2	34.9	36.2	40.1	85.4	80.1	14.2
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°	1574.8	1574.8	1574.8	1574.8	1574.8	1574.8	1574.8	1574.8	1574.8	1574.8	1574.8
2.5°	1577.4	1568.3	1536.0	1508.8	1485.5	1471.3	1454.5	1444.2	1439.0	1435.1	1436.4
5°	1583.8	1561.8	1506.2	1462.2	1428.7	1392.4	1367.9	1353.7	1347.2	1336.9	1336.9
7.5°	1620.0	1585.1	1507.5	1440.3	1382.1	1333.0	1286.5	1269.7	1258.0	1255.4	1252.8
10°	1671.7	1627.8	1521.7	1428.7	1345.9	1278.7	1212.7	1154.5	1109.3	1082.2	1078.2
12.5°	1736.3	1673.0	1543.7	1420.9	1314.9	1195.9	1021.4	903.7	824.9	800.3	804.2
15°	1795.9	1727.3	1565.7	1414.4	1258.0	991.6	793.8	659.3	619.3	615.4	616.7
17.5°	1866.9	1785.5	1591.6	1405.4	1101.5	757.7	589.5	553.4	561.1	574.1	572.7
20°	1940.6	1847.6	1622.6	1351.1	879.2	570.2	521.0	525.0	536.6	548.2	550.8
22.5°	2019.5	1918.7	1658.8	1220.5	671.0	496.4	493.9	499.0	510.7	523.6	526.2
25°	2128.2	2007.9	1686.0	1049.8	508.1	459.0	464.1	473.2	483.6	497.8	500.4
27.5°	2267.8	2128.2	1700.2	827.5	439.6	425.4	426.6	439.6	452.5	465.4	465.4
30°	2448.7	2271.6	1671.7	625.8	406.0	393.1	387.9	395.6	412.4	425.4	426.6
32.5°	2610.4	2407.4	1596.7	478.4	381.4	363.3	350.4	351.7	358.1	365.9	367.2
35°	2772.0	2539.2	1468.7	402.1	355.6	334.9	315.5	305.1	300.0	296.1	300.0
37.5°	2978.8	2703.5	1298.1	365.9	333.5	307.7	280.6	258.6	240.4	228.8	231.4
40°	3245.2	2931.0	1096.4	342.6	312.9	281.8	245.7	217.2	186.2	175.9	170.6
42.5°	3684.8	3276.2	884.3	323.2	292.2	254.7	209.4	170.6	142.2	131.9	134.5
45°	4379.1	3711.9	681.4	302.5	271.5	225.0	175.9	134.5	111.2	106.1	108.6
47.5°	5299.6	4275.6	525.0	279.3	245.7	192.7	138.3	106.1	91.8	90.5	89.2
50°	6165.9	4800.5	438.3	253.4	214.6	160.3	113.8	89.2	80.1	78.9	78.9
52.5°	6949.4	5176.8	356.8	223.7	181.0	131.9	95.7	78.9	71.1	67.2	67.2
55°	7646.2	5422.4	289.6	187.5	142.2	104.7	82.8	71.1	62.1	56.9	55.6
57.5°	8172.4	5452.2	217.2	150.0	106.1	81.5	71.1	62.1	51.7	45.2	42.6
60°	8397.4	5194.9	160.3	113.8	78.9	64.7	56.9	50.5	38.8	32.3	31.0
62.5°	8171.2	4694.5	118.9	86.6	60.8	47.9	40.1	37.5	27.2	19.4	18.1
65°	7360.5	3971.8	94.4	65.9	45.2	34.9	25.8	24.6	16.8	9.1	7.7
67.5°	5896.9	3110.7	75.0	49.1	32.3	23.3	16.8	15.5	9.1	2.6	2.6
70°	3834.7	1988.5	60.8	36.2	20.7	15.5	10.3	7.7	5.1	1.3	0.0
72.5°	1896.7	929.6	49.1	28.4	14.2	7.7	3.9	2.6	3.9	0.0	0.0
75°	735.6	331.0	36.2	19.4	7.7	3.9	2.6	0.0	1.3	0.0	0.0
77.5°	244.4	109.9	22.0	10.3	5.1	2.6	0.0	0.0	0.0	0.0	0.0
80°	90.5	42.6	11.6	6.5	2.6	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	36.2	16.8	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.1	10.3	5.1	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	7.7	5.1	3.9	2.6	1.3	0.0	0.0	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)