

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: P453059

Luminaire Tested: **GALN-SA4A-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453059
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-SA4A-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA 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: 13087 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

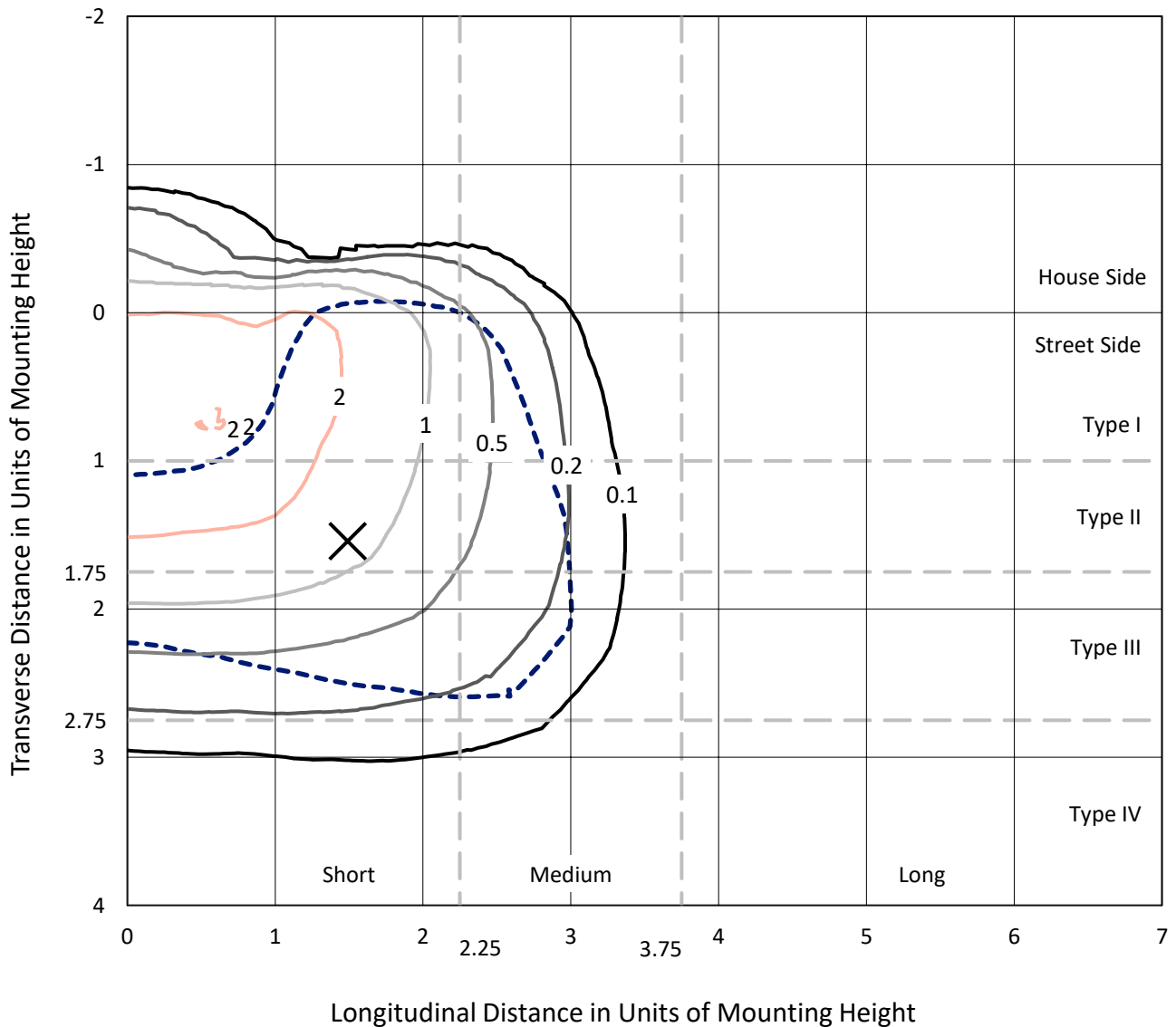
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

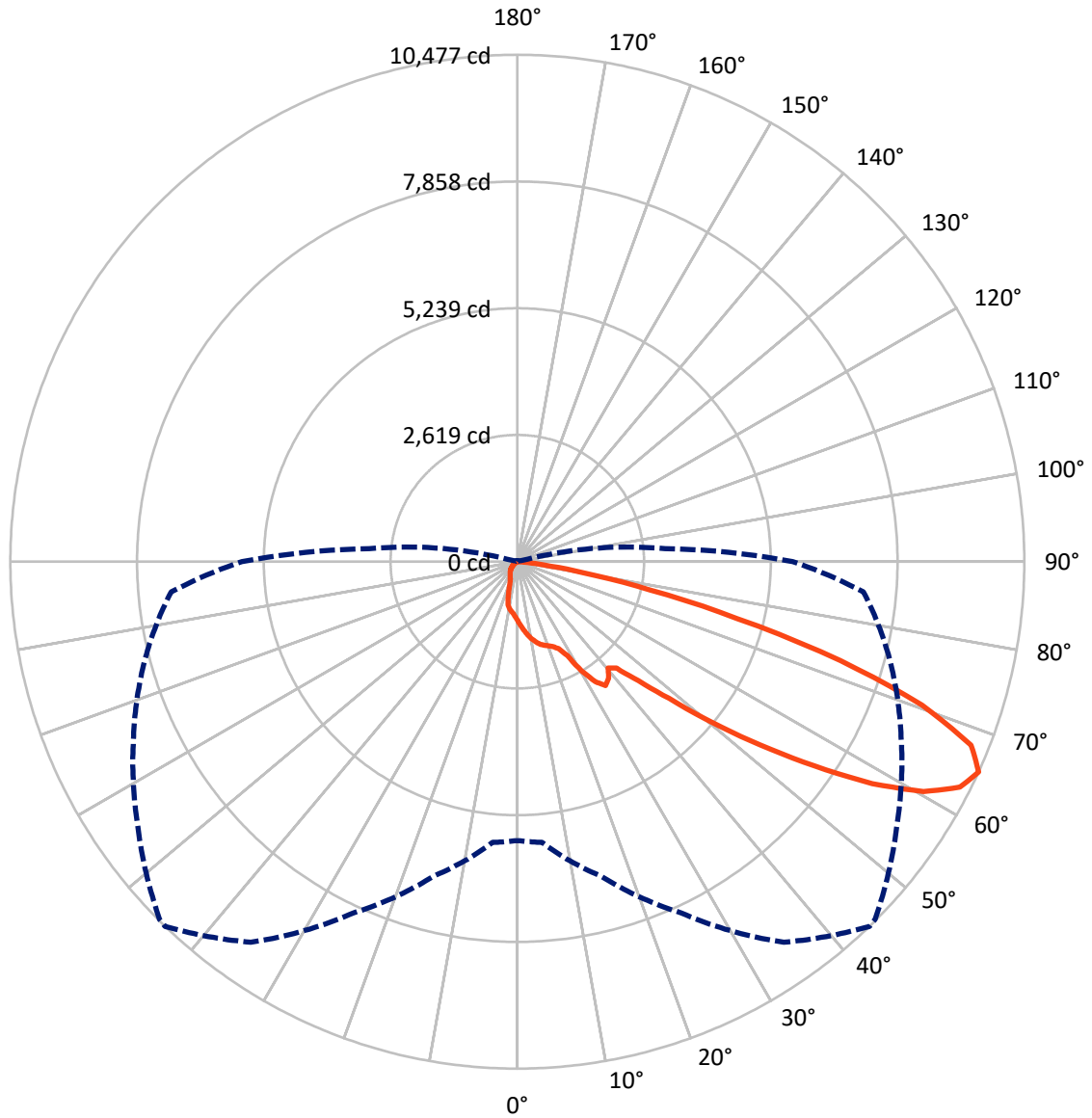
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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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	1205.8	0.0	1205.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	11881.2	0.0	11881.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	13087.0	0.0	13087.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	0.9
10°-20°	364.6	2.8
20°-30°	618.2	4.7
30°-40°	1027.9	7.9
40°-50°	1794.8	13.7
50°-60°	3506.4	26.8
60°-70°	4068.2	31.1
70°-80°	1481.4	11.3
80°-90°	104.4	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°	13087.0	100.0
0°-180°	13087.0	100.0

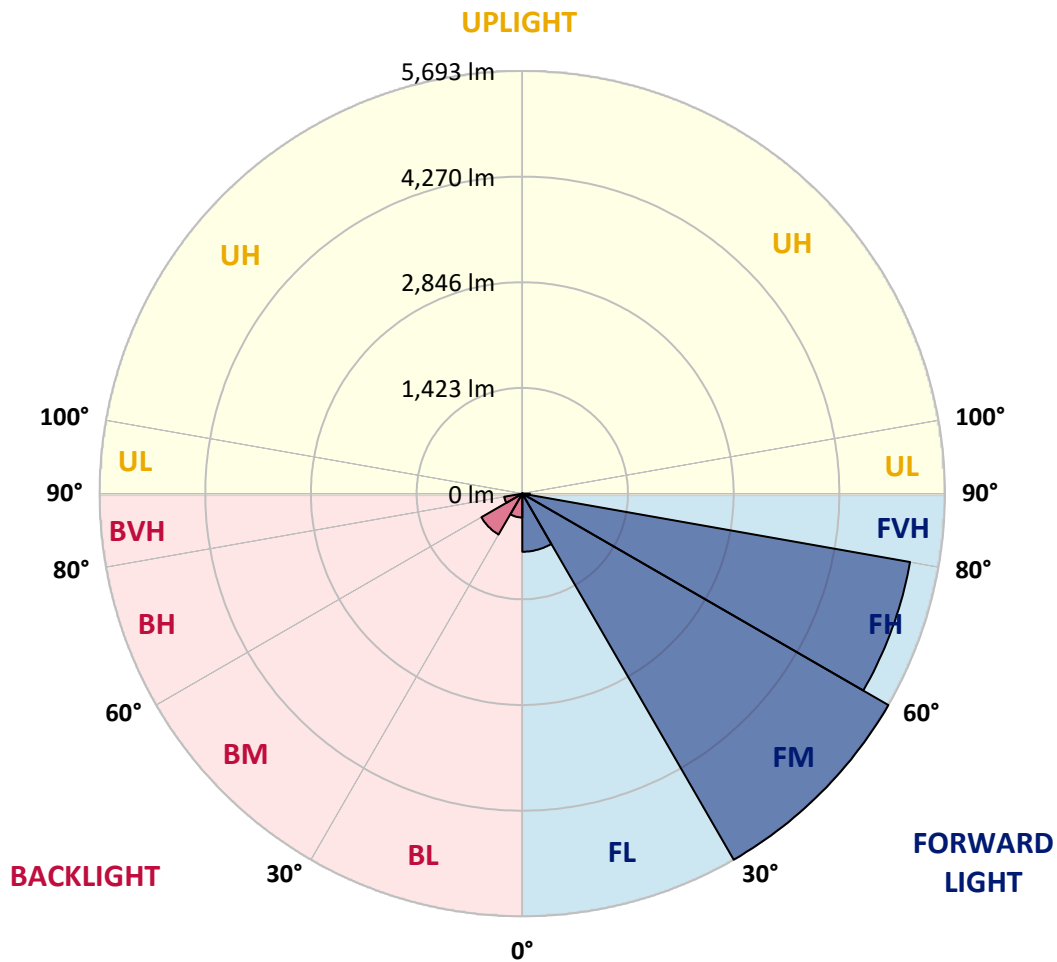


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	782.7	6.0			
FM (30°-60°)	5692.9	43.5			
FH (60°-80°)	5302.7	40.5			G3/7500
FVH (80°-90°)	103.0	0.8			G2/225
BL (0°-30°)	321.3	2.5	B1/500		
BM (30°-60°)	636.2	4.9	B1/1000		
BH (60°-80°)	246.9	1.9	B1/500		G1/500
BVH (80°-90°)	1.4	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0
2.5°	1371.0	1365.0	1362.0	1346.0	1334.0	1319.0	1319.0	1300.0	1278.0	1254.0	1232.0
5°	1524.0	1514.0	1501.0	1487.0	1459.0	1419.0	1419.0	1379.0	1333.0	1292.0	1247.0
7.5°	1671.0	1662.0	1640.0	1613.0	1567.0	1525.0	1522.0	1464.0	1409.0	1347.0	1283.0
10°	1800.0	1793.0	1774.0	1722.0	1674.0	1619.0	1618.0	1553.0	1489.0	1413.0	1334.0
12.5°	1890.0	1891.0	1866.0	1816.0	1754.0	1702.0	1698.0	1634.0	1567.0	1485.0	1388.0
15°	1954.0	1954.0	1928.0	1872.0	1816.0	1770.0	1766.0	1710.0	1641.0	1552.0	1447.0
17.5°	1972.0	1978.0	1950.0	1900.0	1855.0	1815.0	1814.0	1767.0	1712.0	1626.0	1507.0
20°	1965.0	1971.0	1949.0	1910.0	1879.0	1856.0	1853.0	1834.0	1783.0	1702.0	1571.0
22.5°	1950.0	1956.0	1940.0	1917.0	1902.0	1909.0	1904.0	1920.0	1893.0	1795.0	1647.0
25°	1953.0	1959.0	1947.0	1934.0	1947.0	1990.0	2003.0	2072.0	2048.0	1913.0	1729.0
27.5°	2047.0	2059.0	2042.0	2048.0	2094.0	2194.0	2219.0	2338.0	2232.0	2063.0	1857.0
30°	2256.0	2248.0	2216.0	2245.0	2405.0	2617.0	2610.0	2591.0	2425.0	2236.0	2009.0
32.5°	2446.0	2439.0	2437.0	2562.0	2852.0	2955.0	2950.0	2766.0	2598.0	2434.0	2159.0
35°	2523.0	2496.0	2490.0	2793.0	3278.0	3142.0	3111.0	2838.0	2808.0	2650.0	2312.0
37.5°	2755.0	2736.0	2643.0	2831.0	3108.0	3063.0	3039.0	2962.0	3032.0	2841.0	2485.0
40°	3233.0	3180.0	3096.0	2912.0	2867.0	2886.0	2910.0	3121.0	3297.0	3102.0	2716.0
42.5°	3827.0	3815.0	3659.0	3316.0	2979.0	3005.0	3036.0	3453.0	3678.0	3495.0	3093.0
45°	4540.0	4557.0	4332.0	3927.0	3485.0	3507.0	3552.0	3943.0	4194.0	4106.0	3686.0
47.5°	5188.0	5175.0	5099.0	4678.0	4270.0	4221.0	4294.0	4572.0	4908.0	4922.0	4422.0
50°	5840.0	5909.0	5796.0	5631.0	5328.0	5225.0	5198.0	5334.0	5846.0	5779.0	5306.0
52.5°	6777.1	6813.1	6601.1	6559.1	6628.1	6294.0	6267.0	6300.0	6758.1	6528.1	5968.0
55°	7366.1	7345.1	7266.1	7594.1	7867.1	7450.1	7416.1	7283.1	7515.1	7057.1	6605.1
57.5°	7552.1	7582.1	7766.1	8359.1	9005.1	8651.1	8589.1	8211.1	8061.1	7550.1	7191.1
60°	7469.1	7524.1	7921.1	8803.1	9699.1	9646.1	9593.1	8958.1	8453.1	7962.1	7602.1
62.5°	6878.1	6955.1	7590.1	8724.1	9934.1	10265.1	10199.1	9424.1	8714.1	8162.1	7674.1
65°	5764.0	5821.0	6733.1	8007.1	9600.1	10477.1	10453.1	9570.1	8755.1	7979.1	7181.1
67.5°	4109.0	4303.0	5148.0	6748.1	8612.1	10115.1	10156.1	9395.1	8370.1	7188.1	5947.0
70°	2583.0	2715.0	3321.0	4831.0	6904.1	8874.1	9009.1	8594.1	7264.1	5603.0	3981.0
72.5°	1232.0	1330.0	1762.0	3058.0	4873.0	6982.1	7089.1	7055.1	5617.0	3530.0	2054.0
75°	549.0	586.0	841.0	1561.0	3146.0	4693.0	4970.0	5016.0	3510.0	1727.0	799.0
77.5°	280.0	281.0	394.0	756.0	1571.0	2800.0	2855.0	3016.0	1903.0	761.0	278.0
80°	149.0	159.0	209.0	357.0	815.0	1379.0	1372.0	1508.0	844.0	373.0	93.0
82.5°	67.0	74.0	118.0	187.0	398.0	523.0	564.0	617.0	362.0	238.0	41.0
85°	20.0	24.0	58.0	94.0	144.0	151.0	169.0	218.0	205.0	169.0	21.0
87.5°	3.0	3.0	24.0	26.0	21.0	27.0	28.0	31.0	66.0	62.0	11.0
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°	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0
2.5°	1220.0	1213.0	1188.0	1167.0	1149.0	1138.0	1125.0	1117.0	1113.0	1110.0	1111.0
5°	1225.0	1208.0	1165.0	1131.0	1105.0	1077.0	1058.0	1047.0	1042.0	1034.0	1034.0
7.5°	1253.0	1226.0	1166.0	1114.0	1069.0	1031.0	995.0	982.0	973.0	971.0	969.0
10°	1293.0	1259.0	1177.0	1105.0	1041.0	989.0	938.0	893.0	858.0	837.0	834.0
12.5°	1343.0	1294.0	1194.0	1099.0	1017.0	925.0	790.0	699.0	638.0	619.0	622.0
15°	1389.0	1336.0	1211.0	1094.0	973.0	767.0	614.0	510.0	479.0	476.0	477.0
17.5°	1444.0	1381.0	1231.0	1087.0	852.0	586.0	456.0	428.0	434.0	444.0	443.0
20°	1501.0	1429.0	1255.0	1045.0	680.0	441.0	403.0	406.0	415.0	424.0	426.0
22.5°	1562.0	1484.0	1283.0	944.0	519.0	384.0	382.0	386.0	395.0	405.0	407.0
25°	1646.0	1553.0	1304.0	812.0	393.0	355.0	359.0	366.0	374.0	385.0	387.0
27.5°	1754.0	1646.0	1315.0	640.0	340.0	329.0	330.0	340.0	350.0	360.0	360.0
30°	1894.0	1757.0	1293.0	484.0	314.0	304.0	300.0	306.0	319.0	329.0	330.0
32.5°	2019.0	1862.0	1235.0	370.0	295.0	281.0	271.0	272.0	277.0	283.0	284.0
35°	2144.0	1964.0	1136.0	311.0	275.0	259.0	244.0	236.0	232.0	229.0	232.0
37.5°	2304.0	2091.0	1004.0	283.0	258.0	238.0	217.0	200.0	186.0	177.0	179.0
40°	2510.0	2267.0	848.0	265.0	242.0	218.0	190.0	168.0	144.0	136.0	132.0
42.5°	2850.0	2534.0	684.0	250.0	226.0	197.0	162.0	132.0	110.0	102.0	104.0
45°	3387.0	2871.0	527.0	234.0	210.0	174.0	136.0	104.0	86.0	82.0	84.0
47.5°	4099.0	3307.0	406.0	216.0	190.0	149.0	107.0	82.0	71.0	70.0	69.0
50°	4769.0	3713.0	339.0	196.0	166.0	124.0	88.0	69.0	62.0	61.0	61.0
52.5°	5375.0	4004.0	276.0	173.0	140.0	102.0	74.0	61.0	55.0	52.0	52.0
55°	5914.0	4194.0	224.0	145.0	110.0	81.0	64.0	55.0	48.0	44.0	43.0
57.5°	6321.0	4217.0	168.0	116.0	82.0	63.0	55.0	48.0	40.0	35.0	33.0
60°	6495.1	4018.0	124.0	88.0	61.0	50.0	44.0	39.0	30.0	25.0	24.0
62.5°	6320.0	3631.0	92.0	67.0	47.0	37.0	31.0	29.0	21.0	15.0	14.0
65°	5693.0	3072.0	73.0	51.0	35.0	27.0	20.0	19.0	13.0	7.0	6.0
67.5°	4561.0	2406.0	58.0	38.0	25.0	18.0	13.0	12.0	7.0	2.0	2.0
70°	2966.0	1538.0	47.0	28.0	16.0	12.0	8.0	6.0	4.0	1.0	0.0
72.5°	1467.0	719.0	38.0	22.0	11.0	6.0	3.0	2.0	3.0	0.0	0.0
75°	569.0	256.0	28.0	15.0	6.0	3.0	2.0	0.0	1.0	0.0	0.0
77.5°	189.0	85.0	17.0	8.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	70.0	33.0	9.0	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.0	13.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	8.0	4.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	6.0	4.0	3.0	2.0	1.0	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)