

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: P451860

Luminaire Tested: **GALN-SA2D-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10591 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

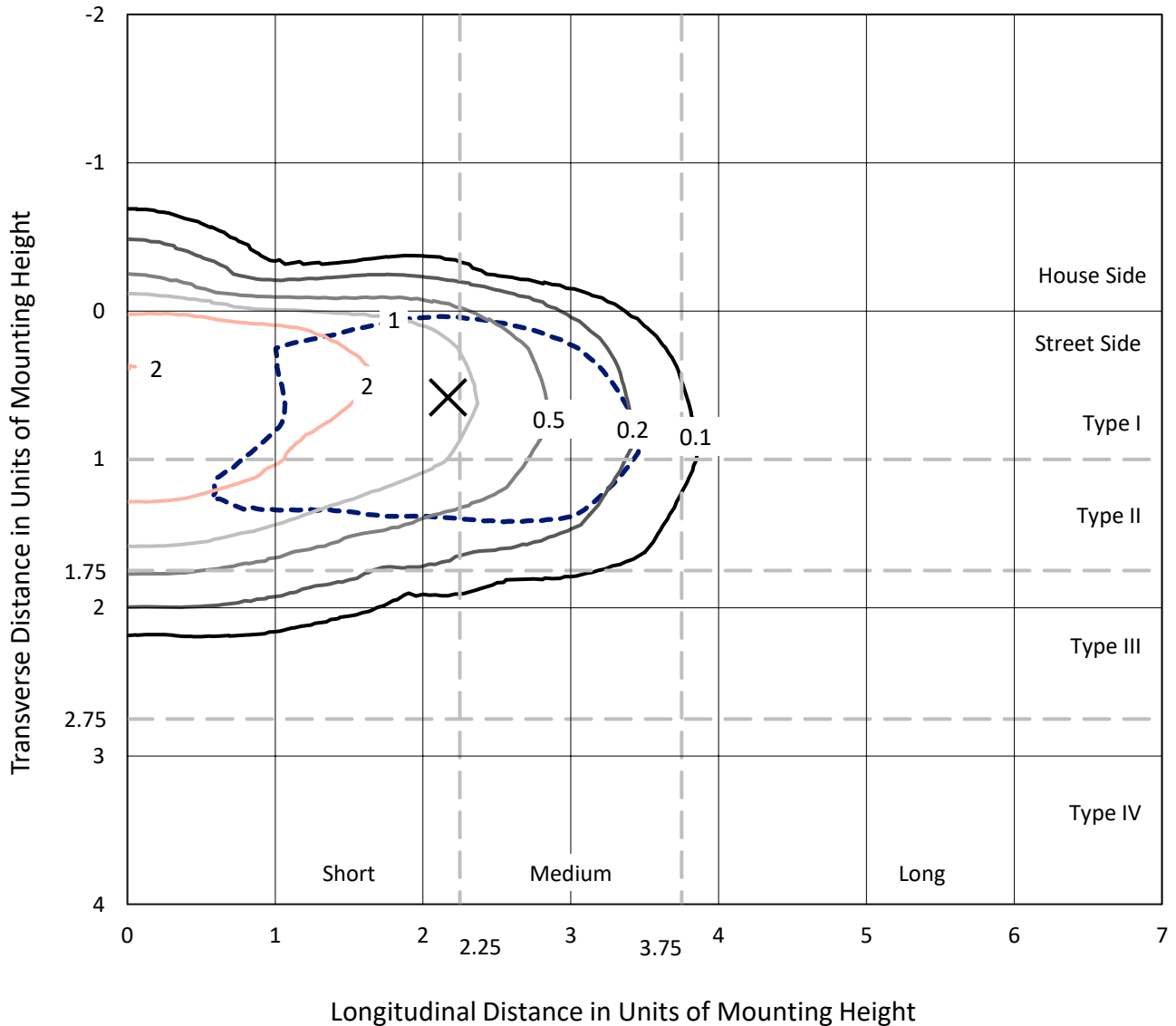
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451860
 CATALOG NUMBER: GALN-SA2D-730-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

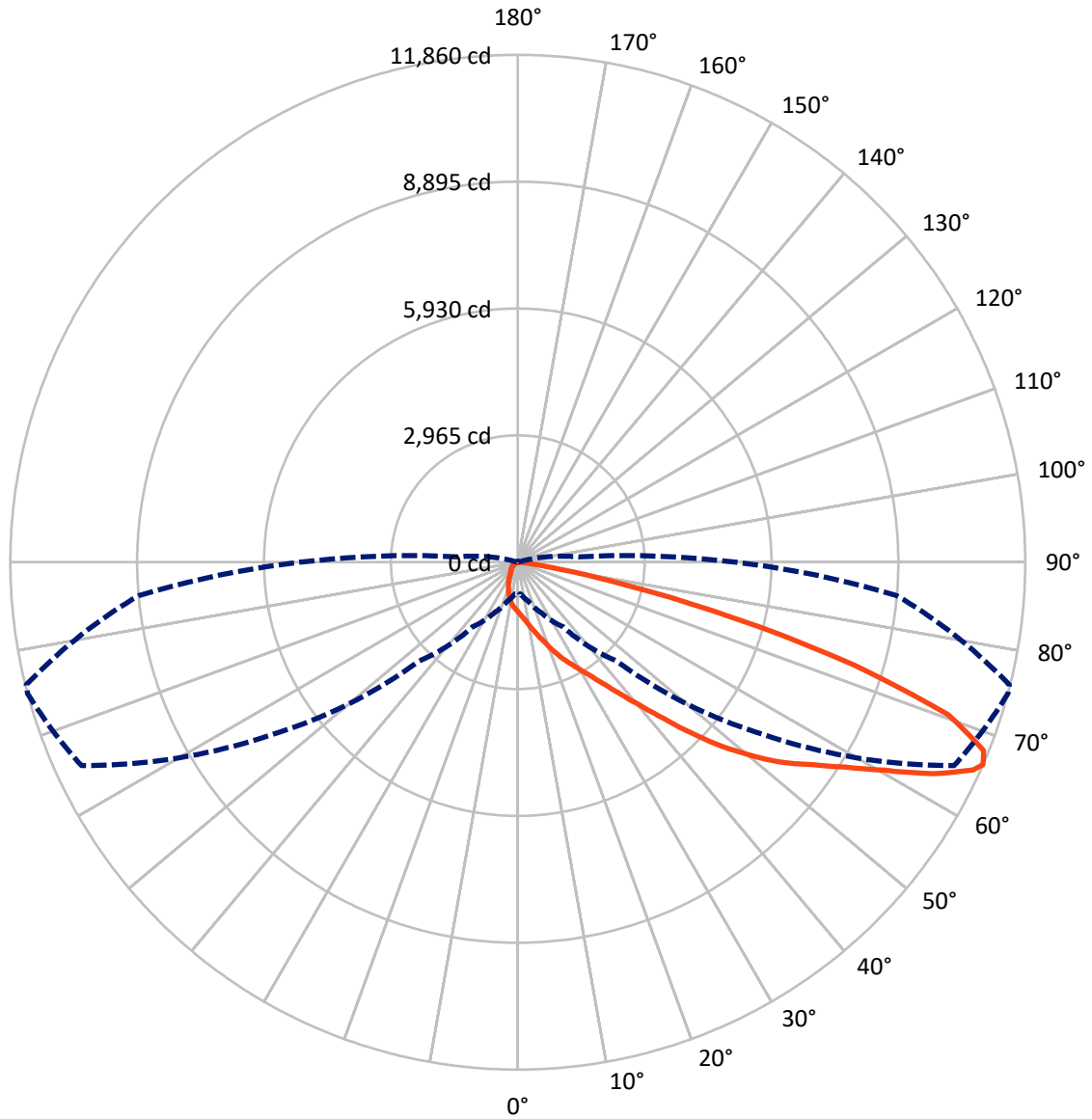
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

REPORT NUMBER: P451860
CATALOG NUMBER: GALN-SA2D-730-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P451860

CATALOG NUMBER: GALN-SA2D-730-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	653.8	0.0	653.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	9937.2	0.0	9937.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	10591.0	0.0	10591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	1.1
10°-20°	328.8	3.1
20°-30°	567.7	5.4
30°-40°	1024.1	9.7
40°-50°	1850.0	17.5
50°-60°	2884.2	27.2
60°-70°	2739.8	25.9
70°-80°	1026.8	9.7
80°-90°	57.9	0.5
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°	10591.0	100.0
0°-180°	10591.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451860

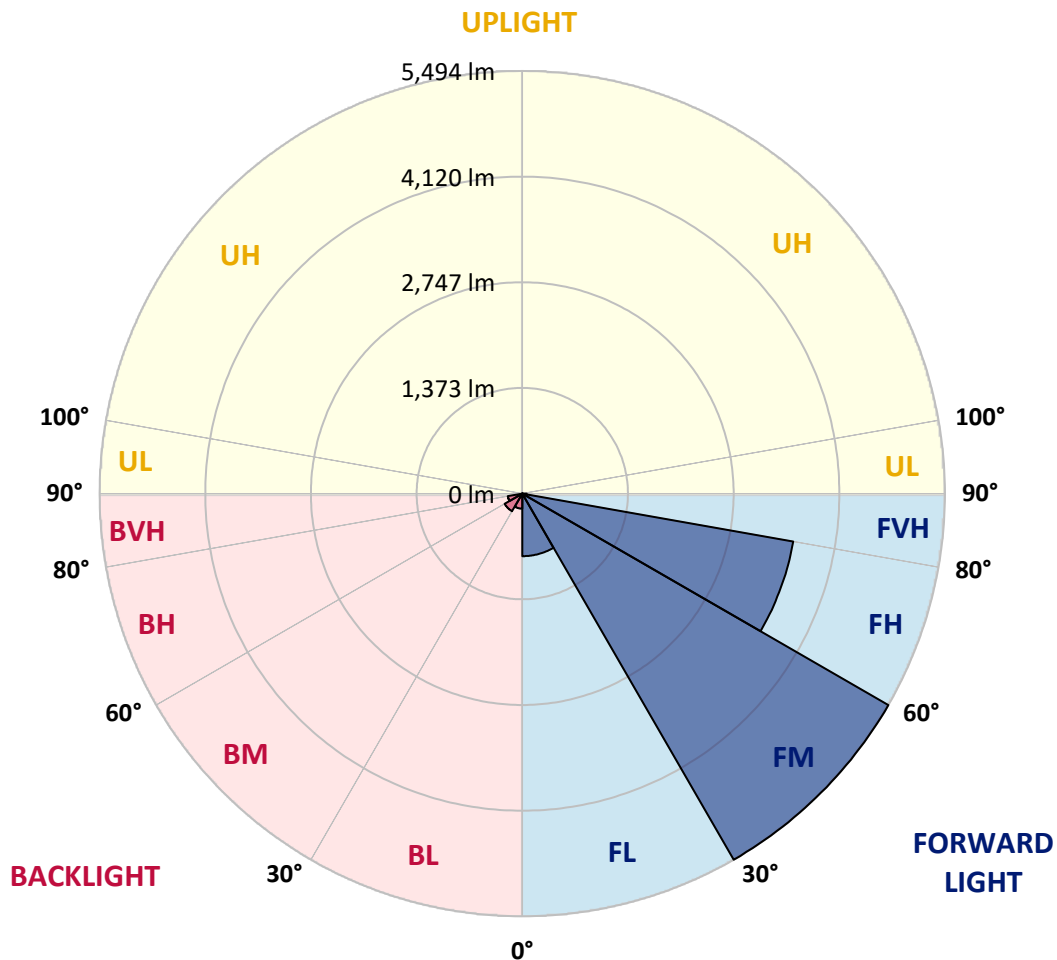
CATALOG NUMBER: GALN-SA2D-730-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.0	7.7			
FM (30°-60°)	5493.5	51.9			
FH (60°-80°)	3575.7	33.8			G2/5000
FVH (80°-90°)	54.9	0.5			G1/100
BL (0°-30°)	195.3	1.8	B1/500		
BM (30°-60°)	264.7	2.5	B1/1000		
BH (60°-80°)	190.9	1.8	B1/500		G1/500
BVH (80°-90°)	3.0	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 II Short





REPORT NUMBER: P451860

CATALOG NUMBER: GALN-SA2D-730-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2
2.5°	1383.8	1366.5	1372.0	1364.2	1346.2	1319.6	1296.1	1262.4	1228.7	1223.2	1185.6
5°	1566.2	1561.5	1555.3	1532.6	1520.0	1479.3	1430.8	1372.8	1303.1	1290.6	1222.4
7.5°	1690.8	1688.4	1691.5	1679.8	1668.8	1632.0	1580.3	1501.2	1393.2	1386.1	1272.6
10°	1731.5	1737.7	1749.5	1768.3	1785.5	1773.8	1734.6	1635.9	1509.9	1489.5	1329.7
12.5°	1708.0	1715.0	1743.2	1793.3	1848.9	1881.0	1865.4	1793.3	1633.6	1617.1	1393.9
15°	1647.7	1656.3	1696.2	1773.8	1873.2	1964.1	2003.2	1951.5	1777.7	1751.1	1471.5
17.5°	1558.4	1570.9	1628.1	1730.7	1867.0	2023.6	2134.0	2116.8	1931.2	1906.1	1556.1
20°	1491.1	1500.5	1549.0	1666.5	1840.3	2056.5	2258.5	2307.1	2120.7	2077.6	1655.5
22.5°	1535.7	1538.8	1555.3	1625.8	1792.6	2065.1	2368.1	2505.2	2321.9	2283.6	1758.9
25°	1754.2	1722.9	1706.4	1690.8	1782.4	2057.2	2467.6	2711.9	2522.4	2481.7	1861.5
27.5°	2098.8	2084.7	2001.6	1890.4	1869.3	2067.4	2533.4	2907.7	2711.2	2667.3	1961.7
30°	2473.9	2449.6	2398.7	2235.8	2072.1	2139.5	2581.2	3098.0	2934.3	2876.4	2053.3
32.5°	2818.4	2834.1	2758.1	2590.6	2401.0	2293.0	2643.0	3305.5	3190.4	3118.4	2159.8
35°	3220.2	3251.5	3134.8	2974.3	2752.7	2570.2	2763.6	3539.7	3515.4	3424.6	2324.3
37.5°	3628.2	3647.0	3575.7	3350.2	3150.5	2922.6	2990.7	3828.7	3915.6	3838.1	2520.9
40°	3971.2	3997.0	3944.6	3744.1	3531.1	3330.6	3320.4	4143.5	4391.7	4311.8	2813.7
42.5°	4233.5	4253.1	4254.7	4112.9	3921.1	3830.2	3741.0	4545.2	4988.5	4896.0	3153.6
45°	4564.8	4593.0	4576.5	4480.2	4336.9	4320.5	4274.3	5030.7	5702.7	5586.0	3594.5
47.5°	5076.9	5095.7	5055.0	4941.5	4795.8	4821.7	4794.2	5575.0	6431.0	6330.7	4051.1
50°	5432.5	5463.8	5521.8	5567.2	5461.5	5365.9	5284.5	6083.3	7122.5	7032.4	4517.8
52.5°	5428.6	5480.3	5663.5	5892.2	6123.2	6094.2	5860.1	6644.8	7782.6	7671.4	4956.3
55°	5062.9	5163.1	5432.5	5838.1	6477.9	6796.7	6690.2	7294.7	8352.7	8277.6	5464.6
57.5°	4307.9	4369.0	4743.3	5310.3	6279.8	7127.2	7651.8	8175.7	9036.4	9001.2	6254.0
60°	2897.5	2924.9	3406.6	4107.5	5346.3	6797.5	8356.6	9241.6	9878.2	9861.0	7175.7
62.5°	1660.2	1672.0	2021.2	2612.5	3804.4	5760.6	8416.2	10556.4	10887.7	10897.1	8242.3
65°	893.5	899.8	1181.7	1533.3	2314.9	4105.9	7568.0	11276.9	11703.7	11721.7	8903.3
66°	771.4	741.6	940.5	1307.0	1841.9	3267.9	7031.6	11251.0	11860.3	11840.7	8879.8
67.5°	586.6	613.2	751.0	1004.7	1365.0	2323.5	5805.2	10750.6	11741.3	11680.2	8518.8
70°	419.8	430.7	534.9	716.6	929.6	1274.9	3709.6	8929.1	10671.5	10589.3	7421.6
72.5°	271.0	282.7	379.0	518.4	671.9	696.2	2076.8	6451.3	8227.4	8215.7	5589.1
75°	193.4	204.4	250.6	371.2	505.1	430.7	1000.0	4347.9	5230.4	5195.2	3457.5
77.5°	140.2	145.7	167.6	242.8	361.0	308.5	463.6	2321.9	2603.9	2726.8	1527.9
80°	80.7	85.4	116.7	148.0	244.3	210.7	221.6	931.9	960.9	914.7	477.7
82.5°	39.9	45.4	69.7	101.0	152.7	141.7	101.8	280.4	296.0	288.2	120.6
85°	9.4	11.7	39.2	66.6	74.4	63.4	49.3	82.2	101.8	99.5	46.2
87.5°	0.8	1.6	14.1	11.7	12.5	21.1	17.2	21.1	32.9	30.5	16.4
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: P451860
 CATALOG NUMBER: GALN-SA2D-730-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2
2.5°	1168.4	1153.5	1110.5	1068.2	1032.9	996.1	962.5	942.9	935.0	926.4	930.3
5°	1184.9	1148.8	1061.9	986.7	913.1	850.5	800.3	768.2	752.6	750.2	746.3
7.5°	1206.8	1144.9	1010.2	892.8	796.4	726.7	669.6	623.4	609.3	596.7	586.6
10°	1233.4	1137.9	946.0	794.1	691.5	603.8	528.6	473.8	445.6	437.8	443.2
12.5°	1261.6	1124.6	878.7	703.2	585.0	473.0	403.3	375.9	368.1	364.9	365.7
15°	1289.8	1108.1	808.2	615.5	466.0	377.5	345.4	338.3	335.2	333.6	332.0
17.5°	1315.6	1081.5	729.1	530.2	377.5	322.6	310.9	304.6	298.4	296.0	292.1
20°	1346.2	1050.9	657.8	434.6	319.5	292.1	278.0	266.3	256.9	250.6	249.8
22.5°	1375.2	1011.8	583.4	360.2	291.3	262.3	239.6	227.1	216.1	208.3	210.7
25°	1390.8	964.0	516.9	314.0	265.5	232.6	207.5	191.9	180.1	176.2	175.4
27.5°	1390.8	905.3	451.9	287.4	242.0	206.0	180.1	165.2	157.4	151.9	152.7
30°	1379.9	840.3	391.6	267.0	221.6	182.5	158.2	144.9	138.6	134.7	133.9
32.5°	1371.2	778.4	339.9	247.5	200.5	162.1	141.0	130.8	124.5	120.6	120.6
35°	1384.6	725.2	299.9	227.9	180.9	146.4	127.6	118.3	112.0	108.9	108.1
37.5°	1419.8	676.6	269.4	206.7	162.9	133.1	118.3	107.3	101.0	97.1	95.5
40°	1506.7	649.2	246.7	187.2	145.7	122.2	107.3	97.1	89.3	85.4	84.6
42.5°	1646.1	650.0	224.8	169.2	132.3	112.8	97.9	86.1	77.5	73.6	72.8
45°	1856.0	679.7	207.5	151.9	120.6	102.6	87.7	75.2	67.3	63.4	63.4
47.5°	2107.4	737.7	192.6	137.0	109.6	93.2	77.5	65.0	57.2	54.0	54.0
50°	2379.9	812.9	177.8	121.4	100.2	83.0	66.6	56.4	50.1	47.8	47.8
52.5°	2657.9	903.7	162.9	108.9	90.1	72.0	57.2	50.1	44.6	43.1	42.3
55°	3022.8	1019.6	147.2	95.5	79.1	61.9	50.9	43.9	37.6	35.2	34.5
57.5°	3584.3	1194.3	130.0	83.8	65.0	51.7	43.9	36.8	29.8	25.8	25.1
60°	4261.7	1407.3	112.0	73.6	52.5	42.3	35.2	28.2	21.9	17.2	16.4
62.5°	4896.0	1542.7	94.8	61.9	41.5	32.1	25.1	21.1	15.7	11.0	10.2
65°	5176.4	1497.3	78.3	50.1	32.9	22.7	16.4	14.9	9.4	4.7	3.9
66°	5083.2	1430.0	72.0	45.4	29.8	19.6	14.1	12.5	7.0	2.3	2.3
67.5°	4808.3	1271.0	62.6	39.2	25.8	15.7	11.0	9.4	3.9	0.8	0.0
70°	4120.0	1028.2	49.3	29.0	18.8	11.0	6.3	4.7	2.3	0.0	0.0
72.5°	3164.6	765.9	39.2	21.9	13.3	6.3	3.1	1.6	2.3	0.0	0.0
75°	1939.0	437.8	30.5	16.4	8.6	3.9	2.3	0.0	2.3	0.8	0.0
77.5°	860.6	196.6	20.4	11.0	6.3	3.1	1.6	0.0	1.6	0.8	0.0
80°	217.7	64.2	11.7	7.8	4.7	2.3	0.8	0.0	1.6	1.6	0.8
82.5°	59.5	23.5	8.6	6.3	3.9	2.3	0.8	0.0	1.6	1.6	1.6
85°	23.5	11.0	7.8	6.3	4.7	2.3	0.8	0.0	1.6	1.6	1.6
87.5°	11.0	7.8	7.8	7.0	5.5	2.3	0.8	0.0	1.6	0.8	1.6
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)