

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: P530091

Luminaire Tested: **GALN-SA5B-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16144 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

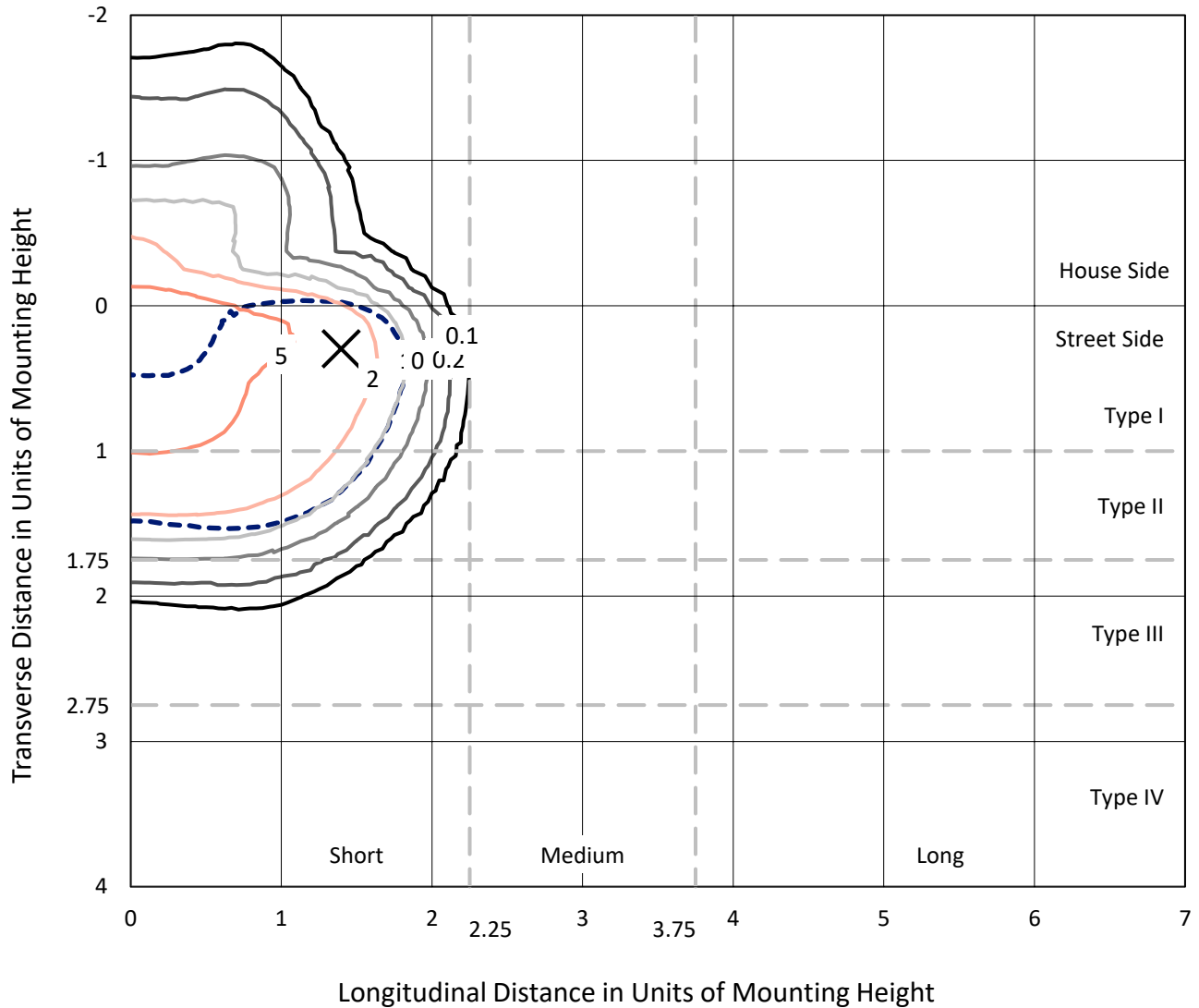
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

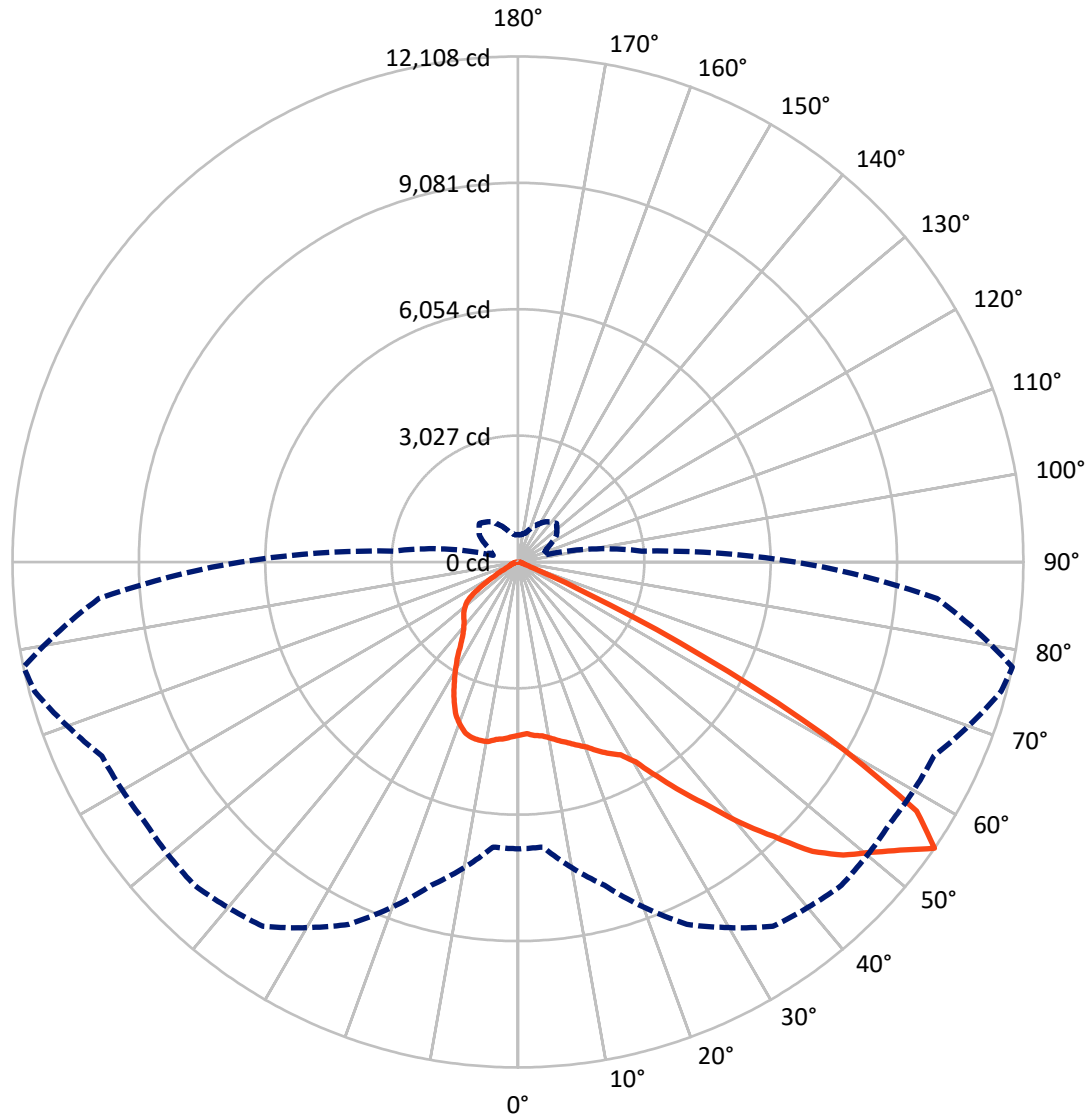
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2998.6	0.0	2998.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13145.4	0.0	13145.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	16144.0	0.0	16144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.1	2.3
10°-20°	979.5	6.1
20°-30°	1716.9	10.6
30°-40°	2830.9	17.5
40°-50°	4119.3	25.5
50°-60°	4667.6	28.9
60°-70°	1334.5	8.3
70°-80°	103.6	0.6
80°-90°	21.6	0.1
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°	16144.0	100.0
0°-180°	16144.0	100.0

Coefficient of Utilization



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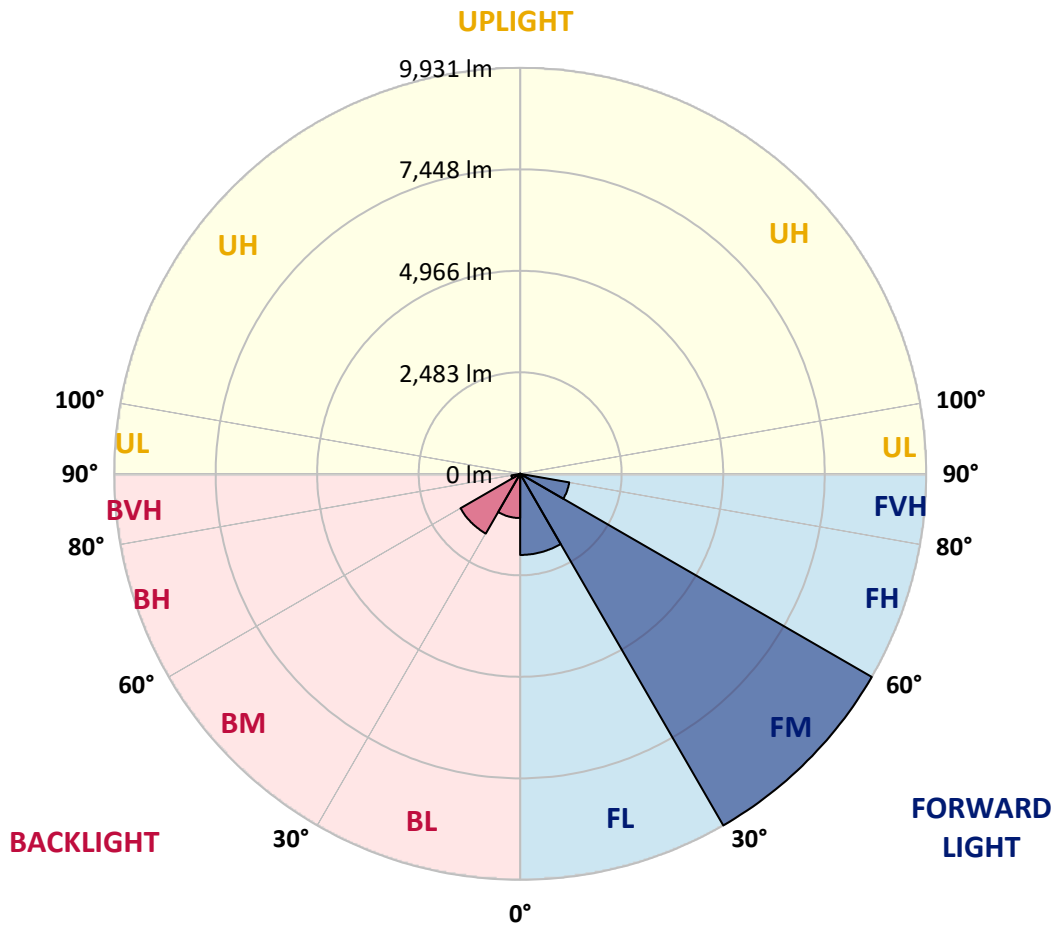
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1984.6	12.3			
FM (30°-60°)	9931.1	61.5			
FH (60°-80°)	1219.3	7.6			G1/1800
FVH (80°-90°)	10.5	0.1			G1/100
BL (0°-30°)	1081.9	6.7	B3/2500		
BM (30°-60°)	1686.7	10.4	B2/2500		
BH (60°-80°)	218.9	1.4	B1/500		G1/500
BVH (80°-90°)	11.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4150.6	4150.6	4150.6	4150.6	4150.6	4150.6	4150.6	4150.6	4150.6	4150.6	4150.6
2.5°	3902.4	3939.9	3945.7	3991.9	3989.0	4066.9	4090.0	4092.9	4144.9	4118.9	4185.3
5°	3792.7	3772.5	3763.9	3844.7	3867.8	3937.0	3994.8	4029.4	4136.2	4173.7	4243.0
7.5°	3694.6	3694.6	3700.4	3772.5	3763.9	3853.3	3913.9	4020.7	4176.6	4208.4	4292.1
10°	3599.3	3564.7	3608.0	3683.0	3746.5	3786.9	3913.9	4015.0	4196.8	4289.2	4404.6
12.5°	3550.3	3567.6	3573.4	3628.2	3697.5	3818.7	3888.0	4055.4	4341.1	4396.0	4520.1
15°	3859.1	3824.5	3740.8	3691.7	3749.4	3807.2	3980.3	4150.6	4416.2	4494.1	4632.7
17.5°	4217.0	4188.2	4118.9	3986.1	3856.2	3963.0	4098.7	4254.5	4497.0	4612.5	4817.4
20°	4684.6	4638.4	4569.2	4309.4	4196.8	4081.4	4225.7	4410.4	4629.8	4733.7	4944.4
22.5°	5241.7	5241.7	5085.8	4771.2	4537.4	4427.7	4488.3	4595.1	4777.0	4918.4	5126.2
25°	5821.9	5804.5	5663.1	5336.9	4941.5	4811.6	4880.9	4955.9	5005.0	5082.9	5221.5
27.5°	6485.7	6384.7	6205.7	5844.9	5495.7	5244.6	5319.6	5253.2	5192.6	5233.0	5432.2
30°	6936.0	6999.5	6771.5	6425.1	6096.1	5816.1	5830.5	5772.8	5495.7	5553.4	5671.8
32.5°	7403.6	7444.0	7317.0	7126.5	6797.5	6471.3	6352.9	6303.9	6096.1	6122.0	6006.6
35°	7793.3	7871.2	7758.6	7674.9	7579.7	7317.0	6990.8	7149.6	6814.8	6751.3	6451.1
37.5°	8151.2	8128.1	8260.9	8174.3	8154.1	7969.3	7611.4	7643.2	7418.0	7403.6	7057.2
40°	8471.6	8477.3	8659.2	8699.6	8618.8	8289.7	7770.2	8021.3	8203.1	8220.4	7775.9
42.5°	8737.1	8815.0	8970.9	9297.1	9175.8	8627.4	7934.7	8208.9	8884.3	8991.1	8457.1
45°	8968.0	9126.8	9320.2	9611.7	9542.4	9106.6	8344.6	8595.7	9611.7	9891.7	9097.9
47.5°	8982.5	9190.3	9401.0	9833.9	9920.5	9363.5	8768.9	9207.6	10189.0	10492.0	9565.5
50°	8924.7	9034.4	9455.8	9926.3	10122.6	9782.0	9363.5	9721.4	10748.9	10939.4	9802.2
52.5°	8240.6	8324.4	9170.1	10012.9	10486.3	10255.4	10151.4	10437.2	11320.4	11461.9	10024.4
55°	6869.6	6855.2	8018.4	9577.0	10653.7	10956.7	10893.2	10994.3	11981.4	12108.4	10079.3
57.5°	4699.0	4961.7	5966.2	7975.1	9629.0	10792.2	10858.6	10691.2	11210.7	11259.8	8786.2
60°	2534.3	2643.9	3452.1	5322.5	7331.4	8794.8	8968.0	8664.9	8624.5	8486.0	6272.1
62.5°	1007.4	1062.2	1521.1	2635.3	3994.8	5345.6	5717.9	5593.8	5328.3	4964.6	3247.2
65°	479.1	513.8	756.2	1232.5	1772.2	2228.3	2600.6	2716.1	2003.2	1804.0	1070.9
67.5°	326.2	352.1	551.3	704.3	632.1	661.0	860.1	799.5	470.5	401.2	297.3
70°	248.2	265.5	441.6	479.1	282.9	199.2	222.3	207.8	193.4	196.3	193.4
72.5°	176.1	190.5	323.3	282.9	124.1	92.4	118.3	141.4	141.4	141.4	138.5
75°	106.8	121.2	187.6	109.7	49.1	49.1	75.0	95.3	101.0	103.9	98.1
77.5°	54.8	69.3	63.5	31.8	31.8	37.5	54.8	66.4	72.2	72.2	69.3
80°	11.5	11.5	11.5	17.3	31.8	40.4	54.8	60.6	69.3	69.3	63.5
82.5°	0.0	2.9	8.7	17.3	28.9	37.5	52.0	60.6	69.3	72.2	66.4
85°	0.0	2.9	5.8	11.5	20.2	23.1	20.2	17.3	17.3	17.3	17.3
87.5°	0.0	0.0	2.9	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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°	4150.6	4150.6	4150.6	4150.6	4150.6	4150.6	4150.6	4150.6	4150.6	4150.6	4150.6
2.5°	4191.0	4199.7	4185.3	4182.4	4170.8	4205.5	4121.8	4101.6	4153.5	4104.4	4116.0
5°	4245.9	4266.1	4240.1	4196.8	4133.3	4035.2	3951.5	3841.8	3789.8	3752.3	3746.5
7.5°	4286.3	4300.7	4274.7	4136.2	3945.7	3697.5	3512.7	3377.1	3270.3	3238.5	3186.6
10°	4450.8	4453.7	4323.8	4017.9	3645.5	3319.4	3036.5	2828.7	2721.9	2655.5	2626.6
12.5°	4560.5	4554.7	4292.1	3784.1	3287.6	2854.6	2531.4	2280.2	2182.1	2150.4	2130.2
15°	4699.0	4667.3	4217.0	3544.5	2825.8	2358.2	2066.7	1893.5	1884.8	1864.6	1884.8
17.5°	4808.7	4719.3	4107.3	3108.6	2384.2	1942.5	1752.0	1763.6	1786.7	1806.9	1809.8
20°	4987.7	4803.0	3856.2	2727.6	1974.3	1665.4	1662.6	1714.5	1772.2	1795.3	1818.4
22.5°	5123.3	4837.6	3587.8	2320.7	1639.5	1552.9	1601.9	1679.9	1723.2	1746.3	1780.9
25°	5172.4	4742.3	3229.9	1913.7	1477.8	1500.9	1576.0	1627.9	1682.8	1708.7	1694.3
27.5°	5221.5	4693.3	2802.7	1576.0	1391.2	1466.3	1529.8	1581.7	1599.1	1633.7	1656.8
30°	5339.8	4523.0	2418.8	1362.4	1347.9	1443.2	1489.4	1506.7	1552.9	1573.1	1573.1
32.5°	5435.1	4456.6	2011.8	1261.4	1342.2	1454.7	1460.5	1460.5	1466.3	1451.9	1446.1
35°	5631.4	4228.6	1648.1	1200.7	1339.3	1457.6	1472.1	1423.0	1290.2	1238.3	1223.8
37.5°	5873.8	4081.4	1379.7	1186.3	1359.5	1492.3	1515.4	1330.6	1157.4	1073.7	1059.3
40°	6168.2	3977.4	1203.6	1180.5	1405.7	1573.1	1503.8	1258.5	1033.3	912.1	906.3
42.5°	6511.7	3882.2	1085.3	1177.6	1463.4	1656.8	1492.3	1197.9	906.3	825.5	837.1
45°	6785.9	3830.2	1004.5	1157.4	1483.6	1705.9	1500.9	1091.1	854.4	802.4	808.2
47.5°	6999.5	3720.6	938.1	1122.8	1480.7	1723.2	1423.0	1047.8	828.4	842.8	857.3
50°	7005.3	3573.4	854.4	1047.8	1437.4	1691.4	1333.5	1007.4	822.6	883.2	912.1
52.5°	6927.3	3365.5	764.9	941.0	1336.4	1581.7	1252.7	990.0	796.6	790.9	825.5
55°	6650.2	2975.9	614.8	762.0	1128.6	1304.6	1180.5	958.3	718.7	652.3	658.1
57.5°	5374.5	2133.0	453.2	545.5	799.5	955.4	1065.1	943.9	646.6	554.2	557.1
60°	3328.0	1209.4	331.9	372.3	493.6	580.2	863.0	877.5	577.3	467.6	461.8
62.5°	1708.7	597.5	256.9	262.7	303.1	340.6	591.7	736.0	522.4	444.5	444.5
65°	571.5	294.4	225.1	202.0	202.0	210.7	357.9	510.9	441.6	372.3	372.3
67.5°	245.3	219.4	196.3	176.1	161.6	153.0	202.0	297.3	329.0	282.9	271.3
70°	190.5	184.7	170.3	147.2	127.0	115.5	118.3	153.0	187.6	181.8	176.1
72.5°	141.4	141.4	135.7	115.5	98.1	83.7	77.9	80.8	89.5	92.4	95.3
75°	98.1	101.0	101.0	89.5	72.2	60.6	52.0	43.3	34.6	28.9	26.0
77.5°	66.4	69.3	75.0	66.4	54.8	40.4	31.8	23.1	14.4	5.8	5.8
80°	57.7	66.4	72.2	66.4	57.7	43.3	31.8	17.3	8.7	0.0	0.0
82.5°	60.6	66.4	75.0	63.5	54.8	40.4	31.8	20.2	8.7	2.9	0.0
85°	14.4	14.4	17.3	20.2	26.0	28.9	23.1	14.4	8.7	2.9	0.0
87.5°	5.8	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	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)