

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: P452592

Luminaire Tested: **GALN-SA3C-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21477 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

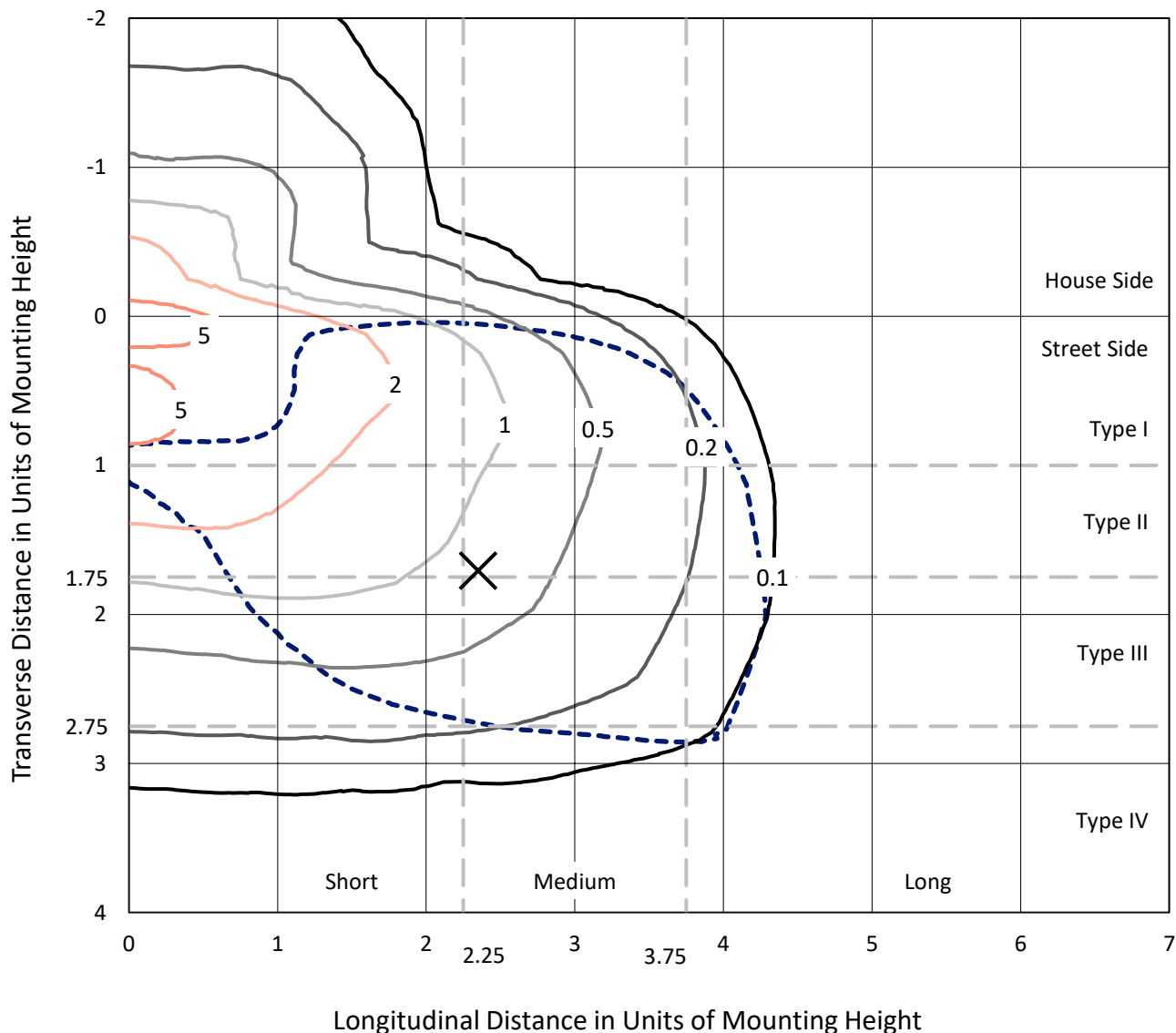
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

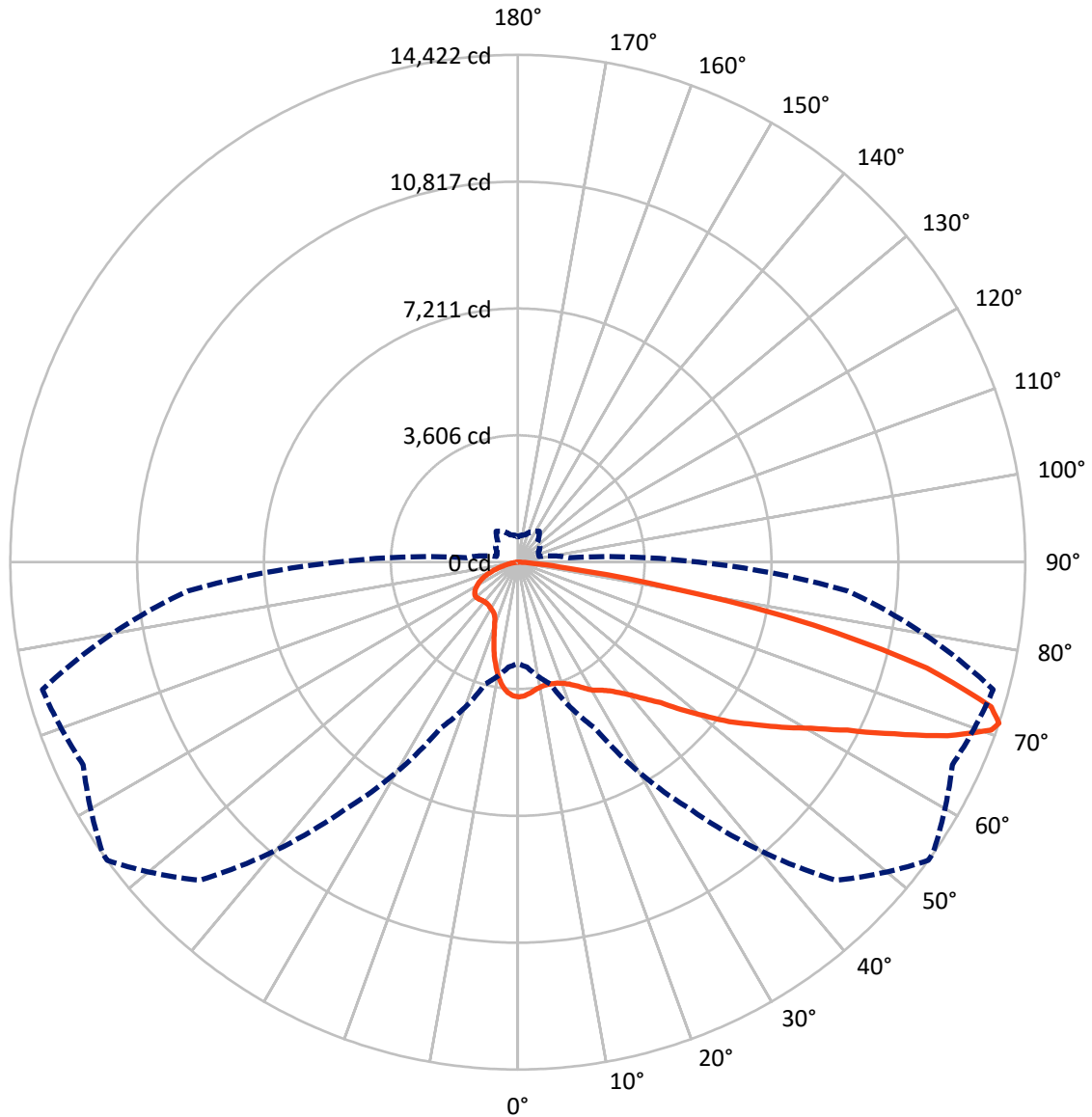
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3877.5	0.0	3877.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17599.5	0.0	17599.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	21477.0	0.0	21477.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.5	1.6
10°-20°	901.7	4.2
20°-30°	1501.3	7.0
30°-40°	2219.9	10.3
40°-50°	3126.8	14.6
50°-60°	4187.0	19.5
60°-70°	5277.4	24.6
70°-80°	3604.4	16.8
80°-90°	317.0	1.5
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°	21477.0	100.0
0°-180°	21477.0	100.0



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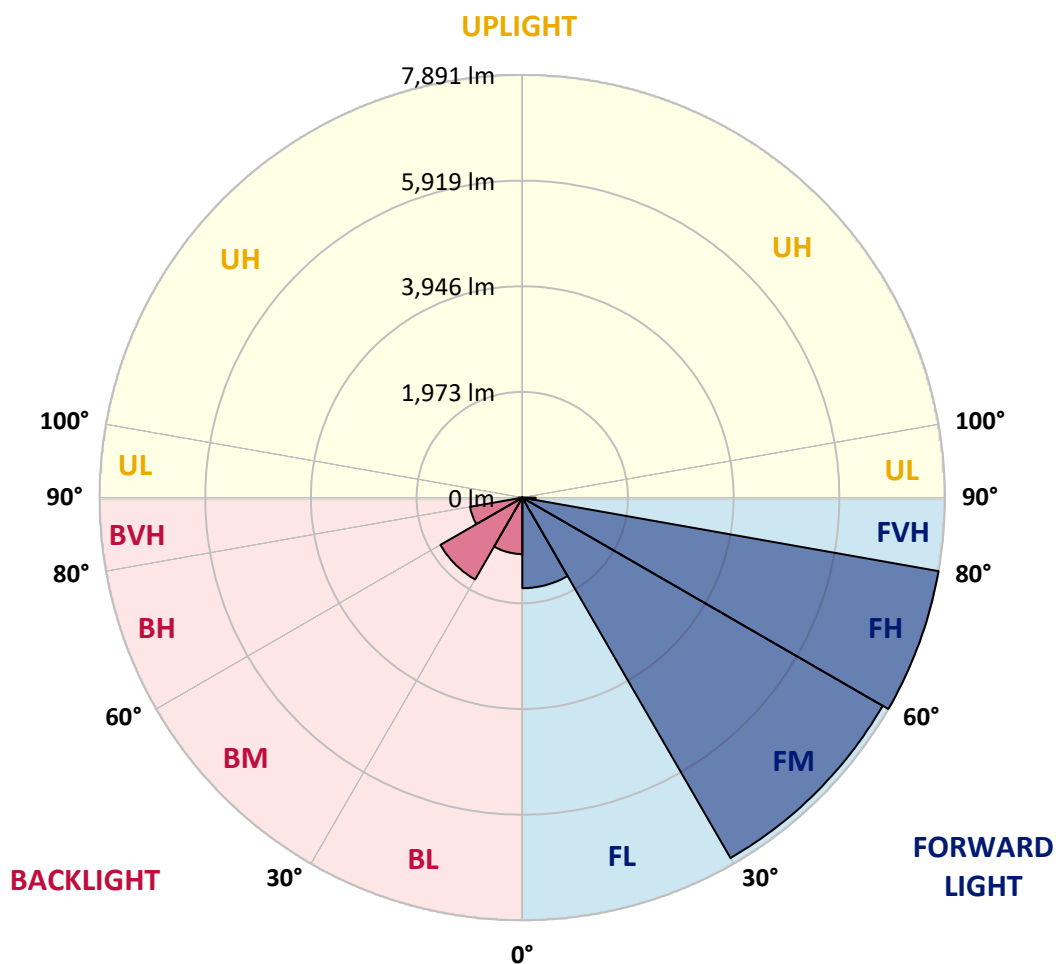
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1690.6	7.9			
FM	(30°-60°)	7769.6	36.2			
FH	(60°-80°)	7891.5	36.7			G4/12000
FVH	(80°-90°)	247.8	1.2			G3/500
BL	(0°-30°)	1053.8	4.9	B3/2500		
BM	(30°-60°)	1764.2	8.2	B2/2500		
BH	(60°-80°)	990.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	69.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3831.8	3831.8	3831.8	3831.8	3831.8	3831.8	3831.8	3831.8	3831.8	3831.8	3831.8
2.5°	3701.9	3719.3	3723.9	3735.5	3759.9	3779.6	3799.3	3797.0	3824.9	3836.5	3846.9
5°	3537.1	3541.8	3559.2	3582.4	3625.3	3679.8	3733.2	3734.4	3802.8	3857.3	3884.0
7.5°	3416.5	3431.6	3443.2	3467.5	3512.8	3572.0	3656.6	3663.6	3785.4	3893.3	3950.1
10°	3337.6	3355.0	3367.8	3397.9	3443.2	3509.3	3601.0	3613.7	3772.6	3950.1	4049.9
12.5°	3265.7	3283.1	3294.7	3334.1	3393.3	3474.5	3577.8	3592.8	3777.3	4016.3	4159.0
15°	3309.8	3323.7	3319.1	3330.7	3370.1	3462.9	3587.0	3602.1	3794.7	4080.1	4266.9
17.5°	3505.8	3517.4	3479.1	3435.1	3416.5	3484.9	3616.0	3632.3	3829.5	4146.2	4377.1
20°	3794.7	3826.0	3742.5	3643.9	3554.6	3563.8	3676.4	3693.8	3878.2	4212.3	4489.6
22.5°	4170.6	4193.8	4091.7	3929.3	3764.5	3679.8	3766.8	3777.3	3951.3	4298.2	4612.6
25°	4612.6	4626.5	4485.0	4276.1	4038.3	3878.2	3891.0	3909.5	4072.0	4395.6	4721.6
27.5°	5041.8	5085.9	4922.3	4667.1	4353.9	4087.0	4061.5	4073.1	4203.0	4450.1	4797.0
30°	5551.1	5547.6	5374.7	5078.9	4677.5	4314.4	4222.8	4220.4	4273.8	4476.8	4851.5
32.5°	5957.1	6004.7	5835.3	5512.8	5047.6	4549.9	4334.1	4329.5	4328.3	4523.2	4932.8
35°	6418.8	6425.8	6270.3	5945.5	5447.8	4845.7	4489.6	4466.4	4439.7	4623.0	5043.0
37.5°	6831.8	6864.3	6721.6	6357.4	5841.1	5153.2	4703.1	4688.0	4606.8	4795.9	5219.3
40°	7154.3	7178.7	7092.9	6746.0	6228.6	5485.0	4974.5	4946.7	4848.1	5078.9	5454.8
42.5°	7259.9	7309.8	7343.4	7172.9	6674.1	5878.2	5308.6	5273.8	5198.4	5508.2	5726.3
45°	7268.0	7346.9	7524.4	7532.5	7121.9	6349.2	5698.4	5674.1	5668.3	6058.0	6107.9
47.5°	7206.5	7286.6	7584.7	7746.0	7520.9	6824.9	6261.1	6222.8	6226.3	6737.9	6536.0
50°	7058.1	7153.2	7515.1	7882.9	7833.0	7319.1	6855.0	6842.3	6914.2	7514.0	6980.3
52.5°	6778.5	6893.3	7443.2	7968.7	8065.0	7744.8	7530.2	7494.3	7676.4	8356.2	7466.4
55°	6004.7	6177.5	7179.9	8016.3	8285.4	8152.0	8138.1	8203.1	8444.4	9275.0	8001.2
57.5°	5601.0	5730.9	6607.9	8024.4	8563.9	8625.4	8848.1	8864.3	9286.6	10250.7	8605.6
60°	5380.6	5495.4	6294.7	7971.1	8952.5	9211.2	9574.3	9632.3	10109.1	11307.5	9232.1
62.5°	5188.0	5286.6	6106.8	7786.6	9391.0	10080.1	10515.2	10543.0	11043.0	12474.6	9850.4
65°	4734.4	4846.9	5728.6	7602.1	9769.2	11166.0	11763.4	11730.9	12037.2	13481.5	10237.9
67.5°	4123.0	4265.7	5022.1	6965.2	9956.0	12352.8	13169.5	13128.9	13018.7	14141.6	10349.3
70°	3342.3	3418.8	4118.4	5864.3	9210.0	12975.7	14279.7	14236.8	13626.6	14228.6	9822.6
71°	2875.9	2995.4	3585.9	5208.9	8589.4	12785.5	14422.4	14410.8	13627.7	13988.5	9425.8
72.5°	2244.8	2317.9	2839.9	4036.0	7300.5	11704.3	14069.7	14113.8	13331.9	13321.4	8608.0
75°	1420.0	1452.4	1781.9	2375.9	4005.8	8288.9	12010.5	12130.0	11837.7	10903.8	6401.4
77.5°	824.8	866.6	1067.3	1400.2	1730.9	4498.9	8594.0	8724.0	8225.1	6003.5	2620.7
80°	480.3	526.7	703.0	813.2	794.7	1669.4	4375.9	4597.5	3561.5	1516.3	735.5
82.5°	266.8	298.1	494.2	495.4	423.4	545.2	1377.0	1440.8	1016.2	611.4	300.5
85°	193.7	219.3	319.0	288.9	203.0	234.3	479.1	502.3	410.7	257.5	97.4
87.5°	68.4	97.4	175.2	139.2	55.7	48.7	138.1	112.5	104.4	71.9	22.0
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°	3831.8	3831.8	3831.8	3831.8	3831.8	3831.8	3831.8	3831.8	3831.8	3831.8	3831.8
2.5°	3852.7	3855.0	3843.4	3822.5	3801.7	3775.0	3744.8	3721.6	3711.2	3710.0	3708.8
5°	3894.5	3900.3	3856.2	3791.2	3719.3	3631.1	3555.7	3469.9	3447.8	3413.0	3423.5
7.5°	3961.7	3958.3	3871.3	3733.2	3565.0	3378.2	3220.4	3128.8	3033.7	3007.0	3008.1
10°	4058.0	4036.0	3871.3	3614.9	3334.1	3056.9	2836.4	2697.2	2621.8	2559.2	2536.0
12.5°	4160.1	4104.4	3834.1	3449.0	3037.1	2697.2	2460.6	2272.6	2223.9	2172.9	2174.0
15°	4257.6	4164.8	3761.0	3215.8	2717.0	2313.2	2083.5	1971.0	1955.9	1961.7	1960.6
17.5°	4345.7	4207.7	3649.7	2955.9	2343.4	1983.8	1862.0	1870.1	1910.7	1939.7	1943.2
20°	4435.1	4233.2	3483.8	2607.9	1990.7	1784.2	1788.9	1852.7	1914.2	1953.6	1959.4
22.5°	4519.8	4244.8	3288.9	2271.5	1735.5	1699.5	1768.0	1836.4	1896.8	1935.0	1940.8
25°	4575.4	4218.1	3012.8	1920.0	1610.2	1669.4	1741.3	1799.3	1850.4	1889.8	1899.1
27.5°	4590.5	4132.3	2670.6	1635.7	1552.2	1640.4	1706.5	1749.4	1788.9	1826.0	1833.0
30°	4582.4	4005.8	2294.7	1468.7	1518.6	1606.7	1657.8	1689.1	1736.7	1765.7	1771.5
32.5°	4569.6	3858.5	1902.6	1379.4	1490.7	1575.4	1605.6	1633.4	1632.3	1620.7	1628.8
35°	4574.3	3682.2	1584.7	1326.0	1466.4	1552.2	1577.7	1542.9	1443.2	1438.5	1433.9
37.5°	4598.6	3508.1	1353.8	1288.9	1453.6	1548.7	1562.7	1402.6	1314.4	1273.8	1263.4
40°	4661.3	3305.1	1201.9	1261.0	1452.4	1575.4	1494.2	1331.8	1162.4	1083.5	1077.7
42.5°	4744.8	3105.6	1109.1	1243.6	1466.4	1616.0	1466.4	1232.0	1047.6	1001.2	994.2
45°	4868.9	2877.1	1058.0	1235.5	1487.2	1631.1	1457.1	1158.9	1001.2	964.0	964.0
47.5°	5009.3	2659.0	1030.2	1229.7	1513.9	1620.7	1374.7	1135.7	979.1	983.8	1005.8
50°	5148.5	2469.9	1009.3	1216.9	1537.1	1614.9	1341.1	1134.6	984.9	1044.1	1083.5
52.5°	5309.8	2336.4	983.8	1196.1	1537.1	1577.7	1330.6	1157.8	1001.2	1018.6	1036.0
55°	5504.7	2294.7	951.3	1150.8	1509.3	1484.9	1324.8	1191.4	1012.8	972.2	979.1
57.5°	5762.2	2362.0	920.0	1094.0	1445.5	1388.6	1322.5	1200.7	986.1	952.4	945.5
60°	6061.5	2495.4	910.7	1036.0	1358.5	1306.3	1308.6	1174.0	949.0	914.2	920.0
62.5°	6271.5	2575.4	904.9	991.9	1263.4	1215.8	1275.0	1141.5	932.7	902.6	908.4
65°	6271.5	2478.0	851.5	924.6	1140.4	1106.7	1234.3	1100.9	911.8	877.0	871.2
67.5°	6033.7	2193.8	770.3	823.7	1004.6	982.6	1177.5	1052.2	880.5	853.8	839.9
70°	5414.2	1663.6	668.2	705.3	833.0	852.7	1104.4	986.1	828.3	795.8	774.9
71°	5141.6	1449.0	625.3	645.0	766.8	795.8	1069.6	958.2	805.1	758.7	721.6
72.5°	4616.0	1220.4	560.3	568.4	655.5	707.7	996.5	904.9	761.0	694.9	653.1
75°	3507.0	891.0	451.3	446.6	484.9	561.5	843.4	806.3	667.1	577.7	553.4
77.5°	1515.1	484.9	337.6	341.1	329.5	425.8	663.6	692.6	571.9	469.8	447.8
80°	459.4	279.6	230.9	235.5	220.4	285.4	467.5	542.9	459.4	365.4	335.3
82.5°	235.5	167.1	157.8	155.5	140.4	161.3	283.1	371.2	328.3	228.5	201.9
85°	102.1	89.3	77.7	75.4	66.1	58.0	100.9	185.6	174.0	127.6	121.8
87.5°	25.5	23.2	15.1	13.9	8.1	1.2	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)