

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: P455138

Luminaire Tested: **GALN-SA6B-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33935 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

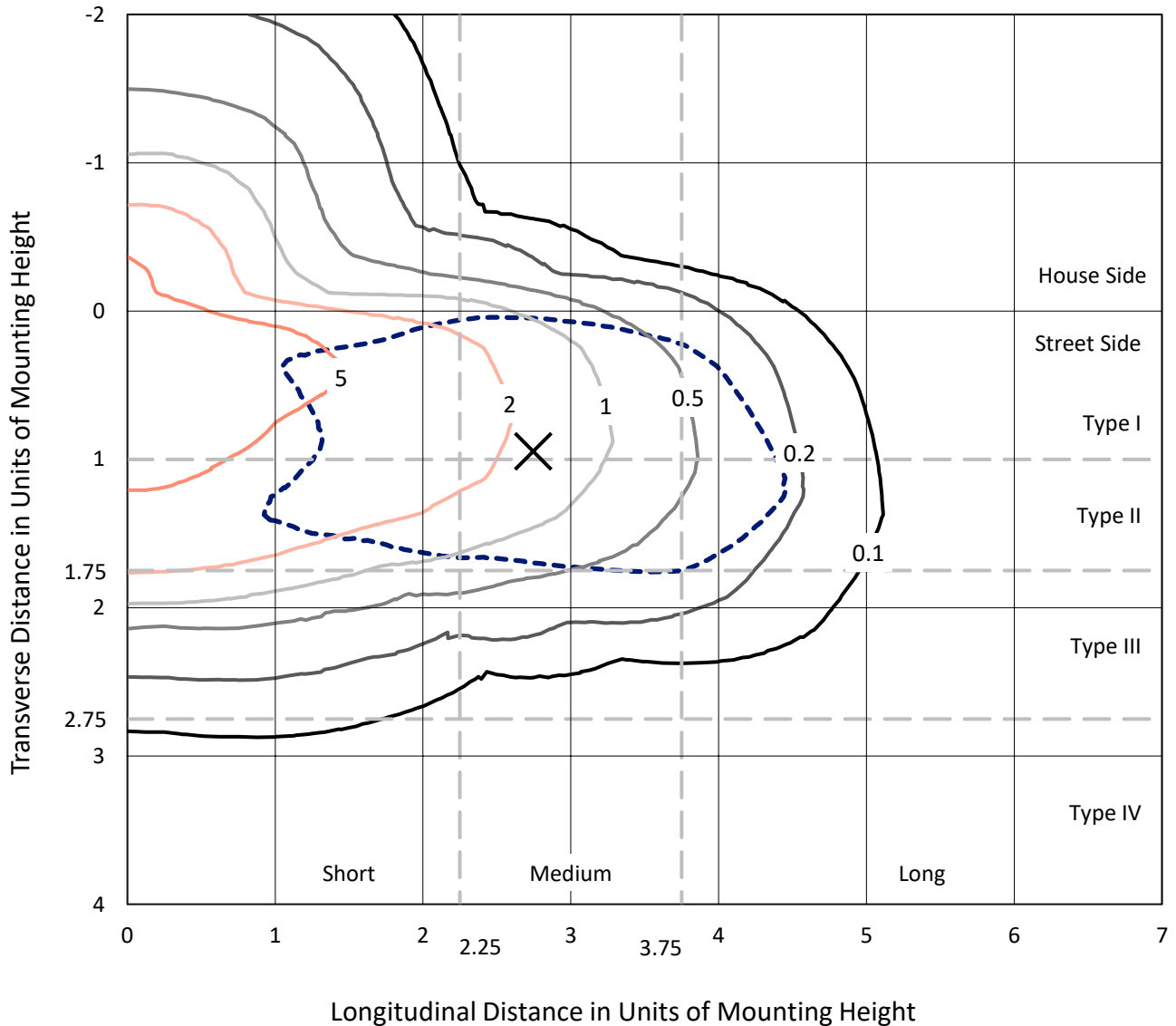
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

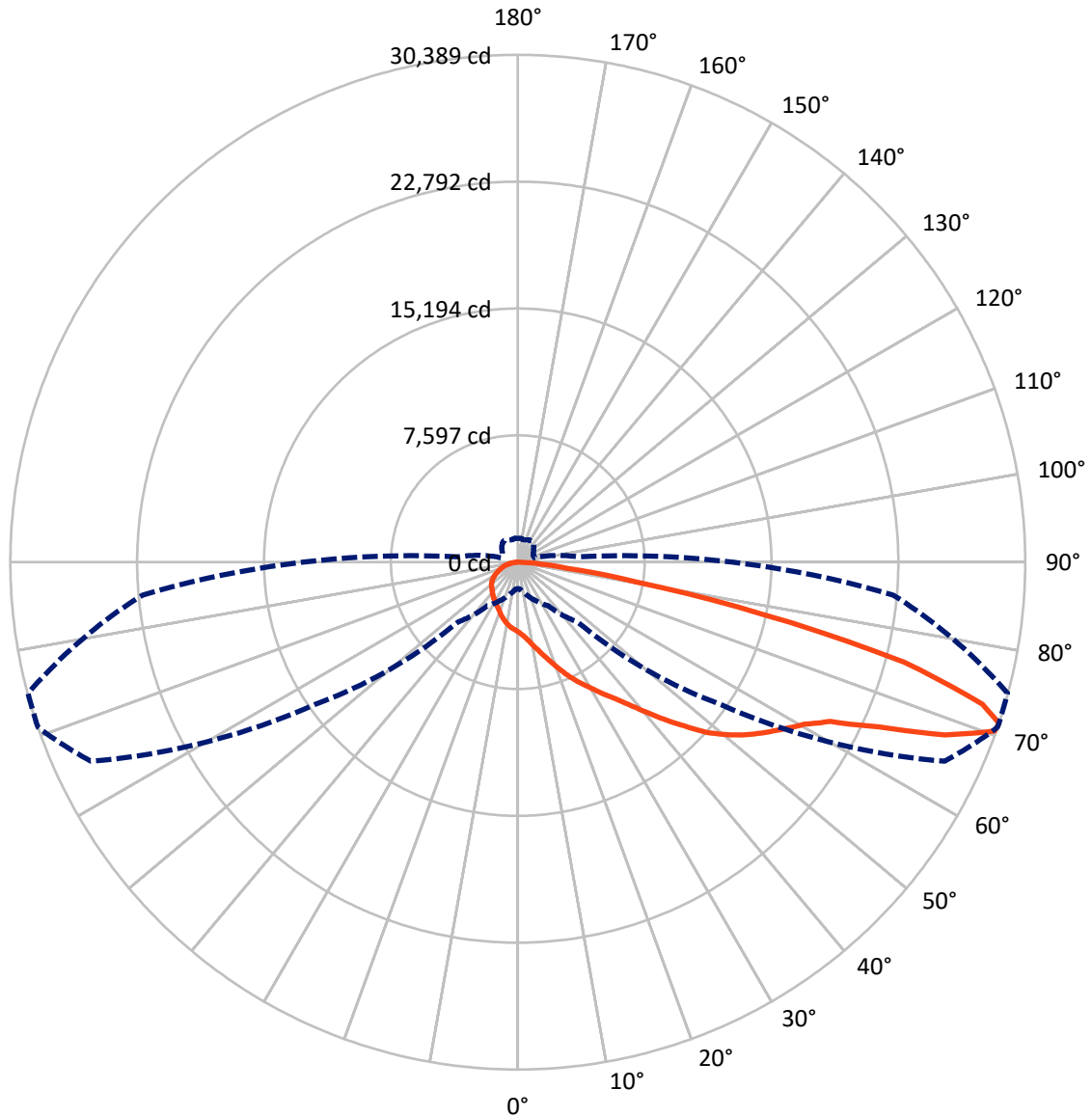
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6103.1	0.0	6103.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	27831.9	0.0	27831.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	33935.0	0.0	33935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.2	1.2
10°-20°	1358.6	4.0
20°-30°	2374.3	7.0
30°-40°	3531.5	10.4
40°-50°	5203.2	15.3
50°-60°	7284.6	21.5
60°-70°	8147.5	24.0
70°-80°	4976.8	14.7
80°-90°	640.2	1.9
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°	33935.0	100.0
0°-180°	33935.0	100.0

Coefficient of Utilization



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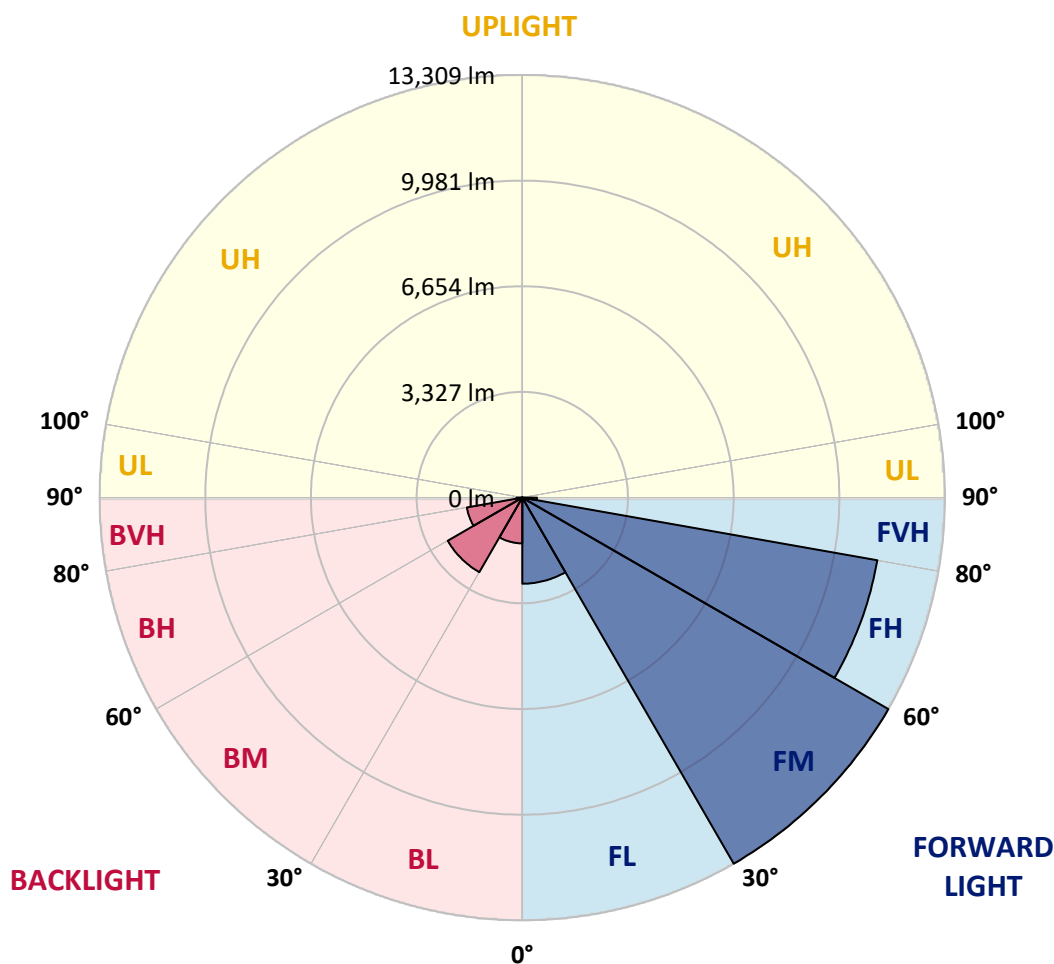
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2711.4	8.0			
FM	(30°-60°)	13308.6	39.2			
FH	(60°-80°)	11351.2	33.4			G4/12000
FVH	(80°-90°)	460.7	1.4			G3/500
BL	(0°-30°)	1439.7	4.2	B3/2500		
BM	(30°-60°)	2710.6	8.0	B3/5000		
BH	(60°-80°)	1773.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	179.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9
2.5°	4623.7	4601.3	4603.2	4571.5	4530.4	4485.7	4422.2	4366.3	4321.5	4295.4	4218.9
5°	5123.5	5101.2	5073.2	5004.2	4974.3	4864.3	4724.4	4597.6	4500.6	4446.5	4293.5
7.5°	5528.3	5522.7	5515.2	5476.0	5399.6	5246.6	5127.3	4907.2	4763.6	4661.0	4399.9
10°	5778.2	5787.5	5793.1	5800.6	5768.9	5688.7	5524.5	5246.6	5063.8	4933.3	4537.9
12.5°	5905.0	5914.4	5946.1	6015.1	6058.0	6048.6	5914.4	5642.0	5390.2	5218.7	4685.2
15°	5983.4	5998.3	6054.2	6145.6	6289.2	6380.6	6315.4	6063.6	5787.5	5584.2	4860.5
17.5°	6069.2	6085.9	6147.5	6278.1	6466.4	6664.1	6735.0	6518.7	6218.4	5975.9	5056.4
20°	6117.7	6140.0	6227.7	6399.3	6619.4	6906.6	7141.6	7027.8	6699.6	6431.0	5282.1
22.5°	6196.0	6214.6	6289.2	6472.0	6735.0	7095.0	7548.2	7524.0	7234.9	6888.0	5530.1
25°	6408.6	6438.5	6475.8	6585.8	6839.5	7287.1	7885.8	8053.7	7753.4	7365.4	5757.7
27.5°	6809.6	6833.9	6832.0	6846.9	6990.5	7453.1	8178.6	8577.8	8268.2	7848.5	5977.8
30°	7266.6	7275.9	7283.4	7249.8	7281.5	7622.8	8447.2	9096.3	8786.7	8344.6	6169.9
32.5°	7822.4	7841.0	7777.6	7691.8	7665.7	7874.6	8669.2	9614.8	9400.3	8848.2	6360.1
35°	8478.9	8527.4	8398.7	8247.6	8141.3	8236.4	8967.6	10144.5	10028.8	9491.7	6611.9
37.5°	9228.7	9288.4	9169.0	8872.5	8721.4	8747.5	9357.4	10799.1	10823.4	10224.7	6986.8
40°	9842.3	9920.7	9924.4	9504.7	9275.3	9305.2	9851.7	11504.2	11782.1	11131.1	7428.8
42.5°	10247.1	10323.5	10403.7	10157.5	9916.9	10086.7	10428.0	12268.9	12860.1	12231.6	8046.2
45°	10691.0	10760.0	10804.7	10692.8	10558.5	10998.7	11123.7	13082.1	14009.0	13460.7	8721.4
47.5°	11205.7	11282.2	11325.1	11218.8	11168.4	11798.9	11873.5	13841.2	15236.3	14654.4	9467.4
50°	11892.1	11949.9	11927.6	11860.4	11849.2	12412.5	12593.4	14551.8	16249.1	15939.5	10241.5
52.5°	12746.3	12815.4	12839.6	12744.5	12701.6	12850.8	13173.5	15199.0	17170.5	17043.6	11067.7
55°	13263.0	13373.0	13742.3	13891.5	13994.1	13417.8	13798.3	15913.4	17996.7	18207.5	11955.5
57.5°	12600.9	12742.6	13568.9	14314.9	15279.2	14835.3	14684.2	16659.4	18823.0	19335.9	13018.7
60°	10985.7	11017.4	12082.4	13457.0	15396.7	16657.5	16532.6	17845.6	19718.2	20473.6	14419.4
62.5°	7621.0	7688.1	8947.1	11140.5	13945.6	17314.1	19677.2	19893.6	21001.4	22176.5	16472.9
65°	3929.8	3842.2	4989.2	7001.7	10513.8	15754.8	22225.0	23659.3	23784.2	24839.9	19363.9
67.5°	2419.1	2458.3	2995.4	4088.4	6216.5	11450.1	21958.3	28260.6	27602.2	28109.5	22047.8
70°	1816.6	1865.1	2234.4	2797.7	3790.0	6546.6	17659.1	29375.9	30295.4	30164.9	22864.7
71°	1579.8	1630.1	2014.3	2545.9	3183.8	5052.7	14878.2	28208.3	30388.7	30366.3	22557.0
72.5°	1346.6	1378.3	1678.6	2156.1	2683.9	3541.9	11177.8	25298.7	29092.4	29836.6	21458.4
75°	1057.5	1081.8	1216.1	1645.1	2113.2	2174.8	5998.3	18966.6	23894.3	25311.8	17864.3
77.5°	861.7	878.5	947.5	1221.7	1630.1	1540.6	3146.5	12345.3	14969.6	16396.4	10523.1
80°	684.5	703.2	744.2	828.1	1221.7	1098.6	1501.4	6255.7	7231.1	7216.2	4200.3
82.5°	531.6	537.2	585.7	608.0	835.6	779.6	813.2	2648.5	2933.9	3030.8	1516.4
85°	335.7	352.5	518.5	466.3	499.9	457.0	401.0	1051.9	1296.3	1277.6	606.2
87.5°	102.6	108.2	175.3	197.7	222.0	199.6	147.3	309.6	378.6	410.3	151.1
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°	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9
2.5°	4189.1	4168.6	4095.8	4036.2	3980.2	3918.7	3866.4	3851.5	3838.5	3832.9	3831.0
5°	4228.3	4166.7	4023.1	3905.6	3812.3	3726.5	3672.5	3648.2	3624.0	3624.0	3631.4
7.5°	4284.2	4172.3	3950.4	3775.0	3657.5	3577.3	3538.2	3534.4	3540.0	3545.6	3547.5
10°	4345.8	4168.6	3844.0	3625.8	3521.4	3484.1	3485.9	3517.6	3547.5	3569.9	3573.6
12.5°	4405.5	4146.2	3719.1	3485.9	3418.8	3426.3	3478.5	3549.4	3607.2	3638.9	3640.7
15°	4472.6	4110.8	3568.0	3353.5	3331.1	3389.0	3485.9	3594.1	3681.8	3734.0	3739.6
17.5°	4528.6	4051.1	3409.5	3224.8	3252.8	3359.1	3493.4	3633.3	3739.6	3804.9	3816.1
20°	4592.0	3974.6	3245.3	3101.7	3181.9	3325.5	3478.5	3629.6	3739.6	3803.0	3817.9
22.5°	4642.3	3866.4	3088.7	3001.0	3118.5	3284.5	3428.1	3549.4	3638.9	3672.5	3694.8
25°	4662.8	3730.3	2941.3	2918.9	3068.2	3217.4	3314.3	3383.4	3411.3	3407.6	3416.9
27.5°	4651.7	3573.6	2814.5	2853.7	3004.7	3112.9	3161.4	3155.8	3105.5	3058.8	3081.2
30°	4605.0	3387.1	2708.2	2786.5	2922.7	2982.4	2974.9	2902.2	2807.0	2719.4	2725.0
32.5°	4521.1	3185.7	2609.3	2710.0	2807.0	2833.1	2782.8	2687.7	2551.5	2437.7	2420.9
35°	4450.2	2993.5	2521.7	2622.4	2691.4	2678.3	2629.8	2506.7	2383.6	2282.9	2266.1
37.5°	4439.0	2829.4	2437.7	2523.5	2562.7	2544.0	2484.4	2379.9	2335.2	2258.7	2249.4
40°	4498.7	2713.8	2351.9	2419.1	2437.7	2422.8	2357.5	2297.8	2338.9	2320.2	2320.2
42.5°	4661.0	2652.2	2275.5	2314.6	2329.6	2340.7	2294.1	2243.8	2294.1	2208.3	2180.3
45°	4918.4	2654.1	2206.5	2212.1	2256.8	2296.0	2264.3	2189.7	2163.6	1992.0	1958.4
47.5°	5297.0	2717.5	2150.5	2115.1	2195.3	2260.5	2215.8	2107.6	1992.0	1878.2	1857.7
50°	5739.0	2831.3	2100.1	2014.3	2113.2	2215.8	2182.2	2055.4	1936.0	1867.0	1853.9
52.5°	6229.6	2974.9	2038.6	1902.4	2012.5	2195.3	2189.7	2047.9	1883.8	1837.2	1826.0
55°	6835.7	3116.6	1962.1	1771.9	1923.0	2178.5	2169.2	1986.4	1872.6	1839.0	1835.3
57.5°	7540.8	3321.8	1852.1	1639.5	1820.4	2109.5	2089.0	1949.1	1835.3	1811.0	1809.2
60°	8676.6	3640.7	1695.4	1518.2	1715.9	1988.2	2014.3	1885.7	1775.6	1770.0	1768.2
62.5°	10170.6	4088.4	1533.1	1393.3	1594.7	1831.6	1906.2	1799.9	1712.2	1740.2	1743.9
65°	12233.4	4465.1	1365.3	1286.9	1460.4	1680.5	1803.6	1719.7	1641.3	1695.4	1695.4
67.5°	13578.2	4472.6	1212.3	1176.9	1324.2	1553.7	1695.4	1624.5	1549.9	1641.3	1645.1
70°	13298.4	3918.7	1085.5	1061.3	1191.8	1417.5	1576.0	1520.1	1434.3	1516.4	1486.5
71°	12847.1	3610.9	1035.2	1016.5	1139.6	1352.2	1520.1	1473.5	1387.7	1441.8	1425.0
72.5°	12127.1	3135.3	953.1	956.8	1061.3	1270.2	1441.8	1393.3	1307.5	1337.3	1331.7
75°	10250.8	2738.0	815.1	831.9	912.1	1130.3	1285.1	1247.8	1160.1	1160.1	1154.5
77.5°	6408.6	1913.6	677.0	686.4	774.0	968.0	1104.2	1072.5	988.5	960.5	953.1
80°	2391.1	988.5	529.7	540.9	595.0	762.8	913.9	884.1	798.3	766.6	736.7
82.5°	904.6	496.1	389.8	380.5	438.3	581.9	716.2	680.8	613.6	537.2	514.8
85°	341.3	246.2	238.7	231.3	257.4	345.1	443.9	436.4	365.6	311.5	305.9
87.5°	89.5	80.2	93.3	69.0	72.7	65.3	67.1	28.0	13.1	5.6	3.7
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)