

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: P455260

Luminaire Tested: **GALN-SA6B-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455260
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-SA6B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27439 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 243
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

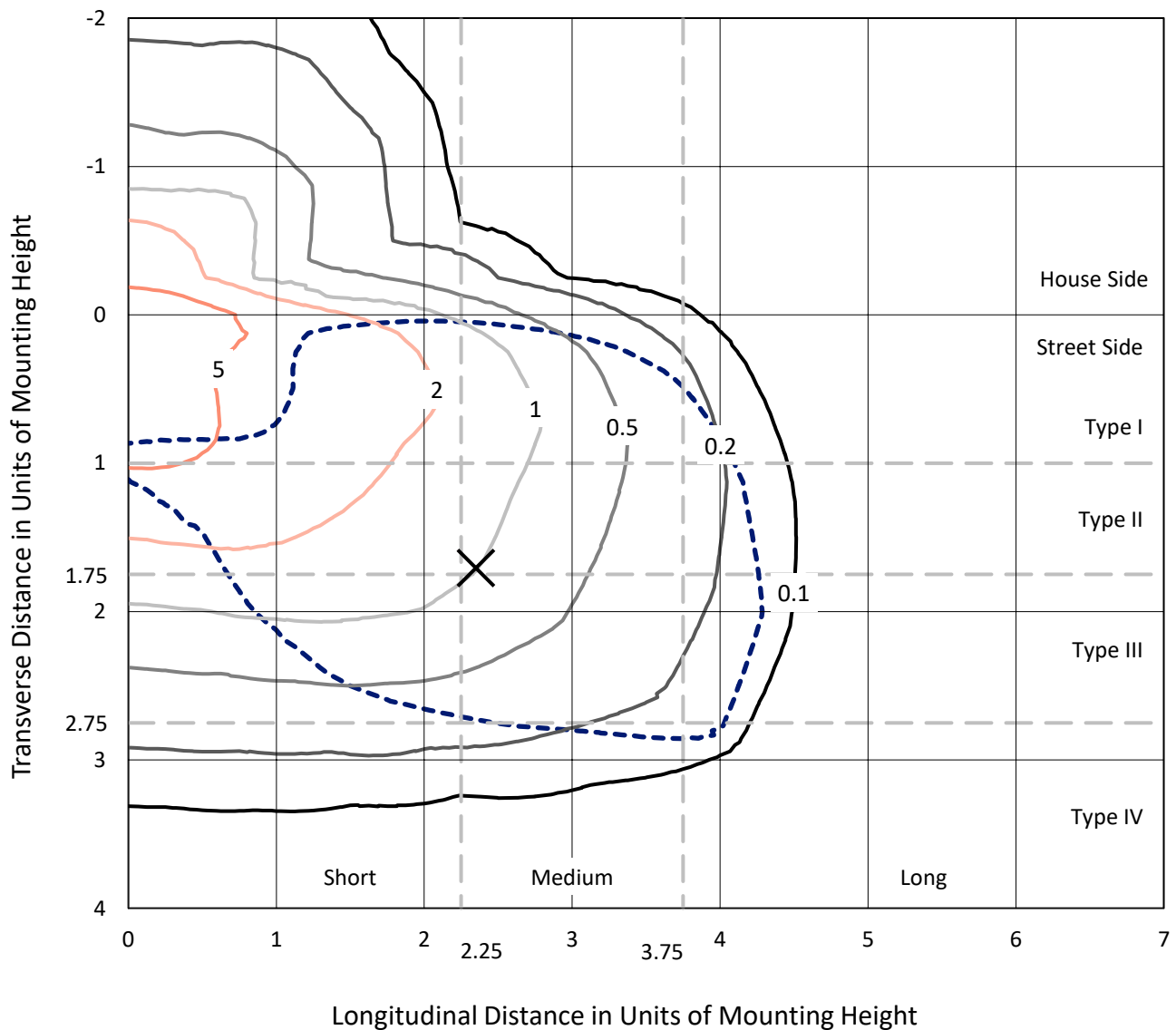


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

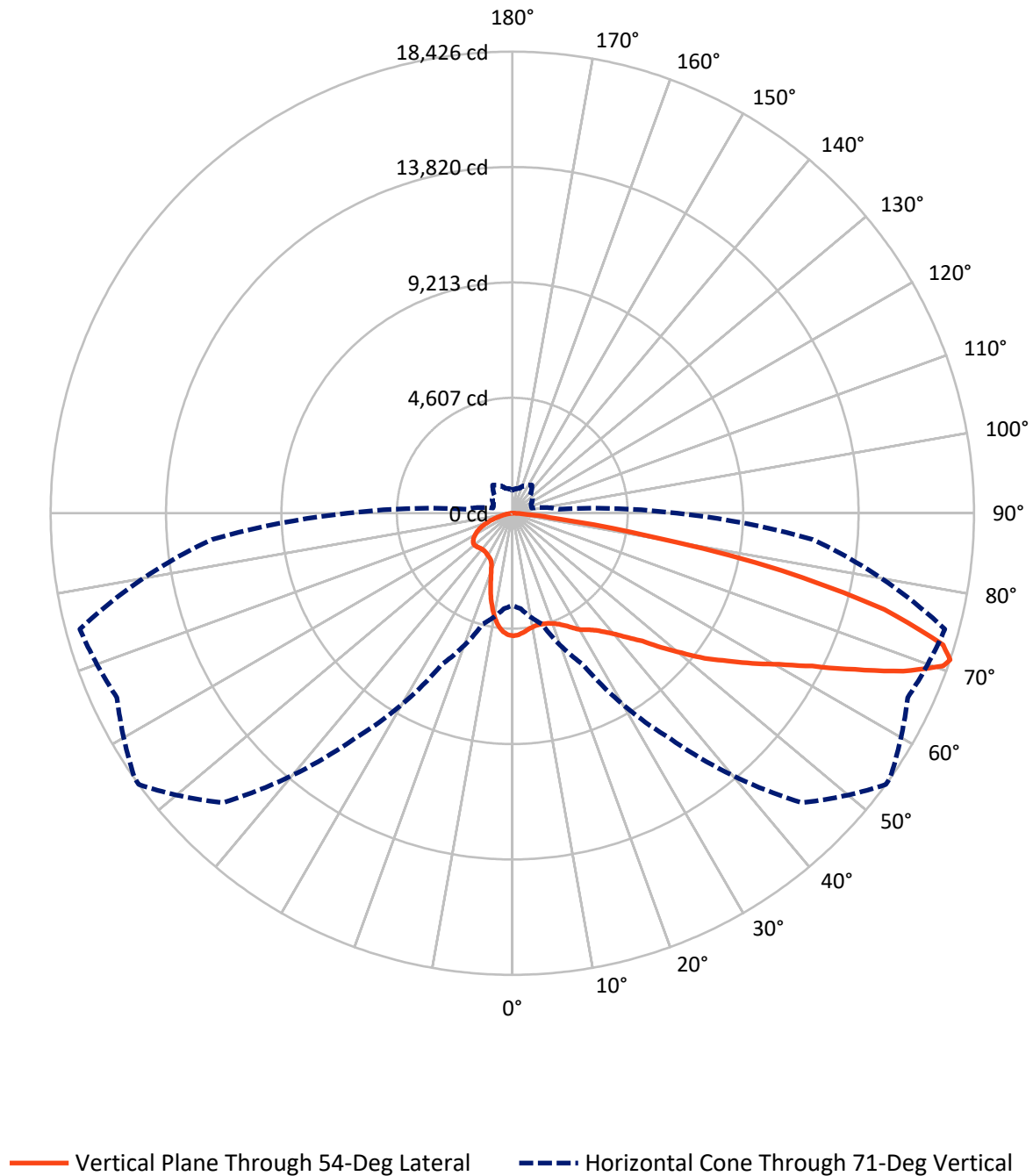


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4953.9	0.0	4953.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22485.1	0.0	22485.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	27439.0	0.0	27439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.3	1.6
10°-20°	1152.0	4.2
20°-30°	1918.1	7.0
30°-40°	2836.2	10.3
40°-50°	3994.9	14.6
50°-60°	5349.3	19.5
60°-70°	6742.4	24.6
70°-80°	4605.0	16.8
80°-90°	405.0	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°	27439.0	100.0
0°-180°	27439.0	100.0

Coefficient of Utilization



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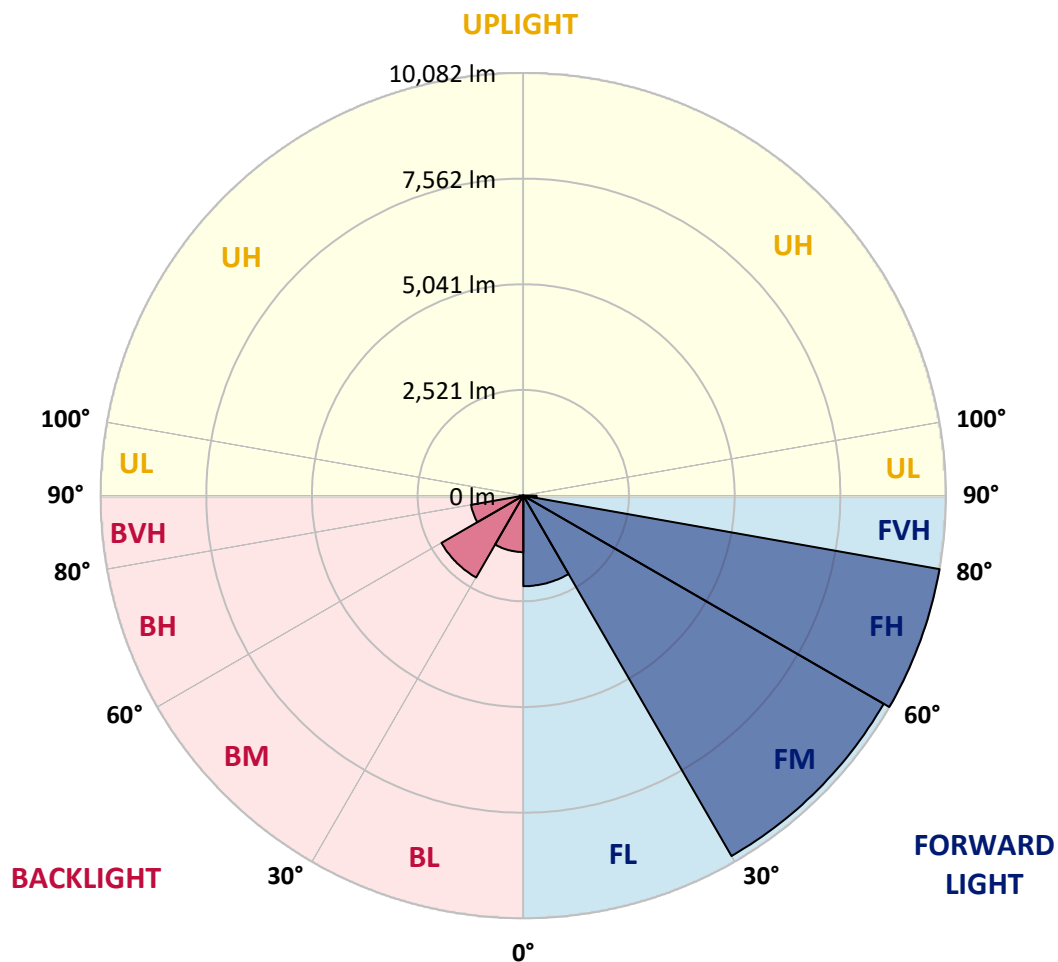
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2159.9	7.9			
FM	(30°-60°)	9926.4	36.2			
FH	(60°-80°)	10082.2	36.7			G4/12000
FVH	(80°-90°)	316.6	1.2			G3/500
BL	(0°-30°)	1346.4	4.9	B3/2500		
BM	(30°-60°)	2253.9	8.2	B2/2500		
BH	(60°-80°)	1265.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	88.4	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°	4895.5	4895.5	4895.5	4895.5	4895.5	4895.5	4895.5	4895.5	4895.5	4895.5	4895.5
2.5°	4729.5	4751.8	4757.7	4772.5	4803.6	4828.8	4854.0	4851.1	4886.6	4901.5	4914.8
5°	4519.1	4525.0	4547.2	4576.9	4631.7	4701.4	4769.5	4771.0	4858.5	4928.1	4962.2
7.5°	4364.9	4384.2	4399.0	4430.1	4487.9	4563.5	4671.7	4680.6	4836.2	4974.1	5046.7
10°	4264.1	4286.4	4302.7	4341.2	4399.0	4483.5	4600.6	4616.9	4819.9	5046.7	5174.2
12.5°	4172.2	4194.5	4209.3	4259.7	4335.3	4439.0	4570.9	4590.2	4825.9	5131.2	5313.5
15°	4228.6	4246.3	4240.4	4255.2	4305.6	4424.2	4582.8	4602.1	4848.1	5212.7	5451.3
17.5°	4479.0	4493.9	4445.0	4388.6	4364.9	4452.4	4619.8	4640.6	4892.6	5297.2	5592.1
20°	4848.1	4888.1	4781.4	4655.4	4541.3	4553.1	4696.9	4719.1	4954.8	5381.7	5735.9
22.5°	5328.3	5358.0	5227.5	5020.0	4809.6	4701.4	4812.5	4825.9	5048.2	5491.3	5893.0
25°	5893.0	5910.8	5730.0	5463.2	5159.3	4954.8	4971.1	4994.8	5202.3	5615.8	6032.3
27.5°	6441.4	6497.7	6288.7	5962.7	5562.5	5221.6	5189.0	5203.8	5369.8	5685.5	6128.7
30°	7092.1	7087.6	6866.8	6488.8	5976.0	5512.1	5395.0	5392.0	5460.2	5719.6	6198.3
32.5°	7610.8	7671.6	7455.2	7043.2	6448.8	5813.0	5537.3	5531.4	5529.9	5778.9	6302.1
35°	8200.7	8209.6	8011.0	7596.0	6960.2	6190.9	5735.9	5706.3	5672.2	5906.3	6442.9
37.5°	8728.4	8769.9	8587.5	8122.2	7462.6	6583.7	6008.6	5989.3	5885.6	6127.2	6668.2
40°	9140.4	9171.5	9061.8	8618.7	7957.6	7007.6	6355.4	6319.9	6193.9	6488.8	6969.0
42.5°	9275.3	9339.0	9382.0	9164.1	8526.8	7510.0	6782.3	6737.8	6641.5	7037.2	7315.9
45°	9285.6	9386.4	9613.2	9623.6	9098.9	8111.8	7280.3	7249.2	7241.8	7739.8	7803.5
47.5°	9207.1	9309.4	9690.3	9896.3	9608.7	8719.5	7999.1	7950.2	7954.7	8608.3	8350.4
50°	9017.4	9138.9	9601.3	10071.2	10007.4	9350.9	8758.0	8741.7	8833.6	9599.9	8918.1
52.5°	8660.2	8806.9	9509.4	10180.9	10303.9	9894.8	9620.6	9574.7	9807.4	10675.9	9539.1
55°	7671.6	7892.4	9173.0	10241.6	10585.5	10415.0	10397.2	10480.2	10788.5	11849.7	10222.4
57.5°	7155.8	7321.8	8442.3	10252.0	10941.2	11019.7	11304.3	11325.1	11864.6	13096.2	10994.5
60°	6874.2	7020.9	8042.1	10183.8	11437.7	11768.2	12232.1	12306.2	12915.4	14446.5	11794.9
62.5°	6628.2	6754.1	7802.0	9948.2	11998.0	12878.4	13434.2	13469.7	14108.5	15937.5	12584.9
65°	6048.6	6192.4	7318.8	9712.5	12481.1	14265.6	15028.9	14987.4	15378.7	17224.0	13079.9
67.5°	5267.5	5449.8	6416.2	8898.8	12719.8	15781.9	16825.3	16773.4	16632.6	18067.3	13222.2
70°	4270.1	4367.9	5261.6	7492.2	11766.7	16577.8	18243.7	18188.9	17409.3	18178.5	12549.3
71°	3674.2	3826.9	4581.3	6654.8	10973.8	16334.7	18426.0	18411.2	17410.8	17871.7	12042.4
72.5°	2867.9	2961.3	3628.3	5156.4	9327.1	14953.4	17975.5	18031.8	17032.8	17019.5	10997.5
75°	1814.1	1855.6	2276.6	3035.4	5117.8	10589.9	15344.6	15497.3	15123.8	13930.7	8178.5
77.5°	1053.8	1107.2	1363.6	1788.9	2211.4	5747.8	10979.7	11145.7	10508.4	7670.1	3348.2
80°	613.6	672.9	898.2	1039.0	1015.3	2132.8	5590.6	5873.7	4550.2	1937.2	939.7
82.5°	340.9	380.9	631.4	632.9	541.0	696.6	1759.3	1840.8	1298.4	781.1	383.9
85°	247.5	280.1	407.6	369.1	259.4	299.4	612.1	641.8	524.7	329.0	124.5
87.5°	87.4	124.5	223.8	177.9	71.1	62.3	176.4	143.8	133.4	91.9	28.2
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°	4895.5	4895.5	4895.5	4895.5	4895.5	4895.5	4895.5	4895.5	4895.5	4895.5	4895.5
2.5°	4922.2	4925.2	4910.3	4883.7	4857.0	4822.9	4784.4	4754.7	4741.4	4739.9	4738.4
5°	4975.6	4983.0	4926.6	4843.6	4751.8	4639.1	4542.8	4433.1	4404.9	4360.5	4373.8
7.5°	5061.5	5057.1	4945.9	4769.5	4554.6	4316.0	4114.4	3997.3	3875.8	3841.7	3843.2
10°	5184.5	5156.4	4945.9	4618.4	4259.7	3905.5	3623.8	3446.0	3349.6	3269.6	3240.0
12.5°	5315.0	5243.8	4898.5	4406.4	3880.3	3446.0	3143.6	2903.5	2841.3	2776.1	2777.5
15°	5439.5	5320.9	4805.1	4108.5	3471.2	2955.4	2661.9	2518.2	2498.9	2506.3	2504.8
17.5°	5552.1	5375.7	4662.8	3776.5	2993.9	2534.5	2378.8	2389.2	2441.1	2478.1	2482.6
20°	5666.2	5408.3	4450.9	3331.9	2543.4	2279.5	2285.5	2367.0	2445.5	2495.9	2503.3
22.5°	5774.4	5423.2	4201.9	2902.0	2217.3	2171.3	2258.8	2346.2	2423.3	2472.2	2479.6
25°	5845.6	5389.1	3849.1	2452.9	2057.2	2132.8	2224.7	2298.8	2364.0	2414.4	2426.3
27.5°	5864.8	5279.4	3411.9	2089.8	1983.1	2095.8	2180.2	2235.1	2285.5	2332.9	2341.8
30°	5854.5	5117.8	2931.7	1876.4	1940.1	2052.8	2118.0	2158.0	2218.8	2255.8	2263.2
32.5°	5838.2	4929.6	2430.7	1762.3	1904.6	2012.8	2051.3	2086.9	2085.4	2070.6	2080.9
35°	5844.1	4704.3	2024.6	1694.1	1873.4	1983.1	2015.7	1971.3	1843.8	1837.9	1831.9
37.5°	5875.2	4482.0	1729.7	1646.7	1857.1	1978.7	1996.4	1791.9	1679.3	1627.4	1614.1
40°	5955.3	4222.6	1535.5	1611.1	1855.6	2012.8	1909.0	1701.5	1485.1	1384.3	1376.9
42.5°	6062.0	3967.7	1416.9	1588.9	1873.4	2064.6	1873.4	1574.0	1338.4	1279.1	1270.2
45°	6220.6	3675.7	1351.7	1578.5	1900.1	2083.9	1861.6	1480.7	1279.1	1231.7	1231.7
47.5°	6399.9	3397.1	1316.1	1571.1	1934.2	2070.6	1756.3	1451.0	1250.9	1256.9	1285.0
50°	6577.8	3155.5	1289.5	1554.8	1963.8	2063.1	1713.4	1449.5	1258.3	1333.9	1384.3
52.5°	6783.8	2985.0	1256.9	1528.1	1963.8	2015.7	1700.0	1479.2	1279.1	1301.3	1323.6
55°	7032.8	2931.7	1215.4	1470.3	1928.3	1897.1	1692.6	1522.2	1293.9	1242.0	1250.9
57.5°	7361.8	3017.6	1175.3	1397.7	1846.8	1774.1	1689.6	1534.0	1259.8	1216.8	1207.9
60°	7744.2	3188.1	1163.5	1323.6	1735.6	1668.9	1671.9	1499.9	1212.4	1167.9	1175.3
62.5°	8012.5	3290.4	1156.1	1267.2	1614.1	1553.3	1628.9	1458.4	1191.6	1153.1	1160.5
65°	8012.5	3165.9	1087.9	1181.3	1456.9	1414.0	1577.0	1406.6	1165.0	1120.5	1113.1
67.5°	7708.6	2802.7	984.1	1052.3	1283.5	1255.4	1504.4	1344.3	1124.9	1090.9	1073.1
70°	6917.2	2125.4	853.7	901.1	1064.2	1089.4	1411.0	1259.8	1058.3	1016.8	990.1
71°	6568.9	1851.2	798.9	824.1	979.7	1016.8	1366.5	1224.3	1028.6	969.3	921.9
72.5°	5897.5	1559.2	715.9	726.3	837.4	904.1	1273.2	1156.1	972.3	887.8	834.4
75°	4480.5	1138.3	576.6	570.6	619.5	717.4	1077.5	1030.1	852.2	738.1	707.0
77.5°	1935.7	619.5	431.3	435.8	420.9	543.9	847.8	884.8	730.7	600.3	572.1
80°	586.9	357.2	294.9	300.9	281.6	364.6	597.3	693.6	586.9	466.9	428.3
82.5°	300.9	213.4	201.6	198.6	179.3	206.0	361.6	474.3	419.4	292.0	257.9
85°	130.4	114.1	99.3	96.3	84.5	74.1	128.9	237.1	222.3	163.0	155.6
87.5°	32.6	29.6	19.3	17.8	10.4	1.5	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)