

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: P456884

Luminaire Tested: **GALN-SA8A-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456884
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-SA8A-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30029 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 244
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

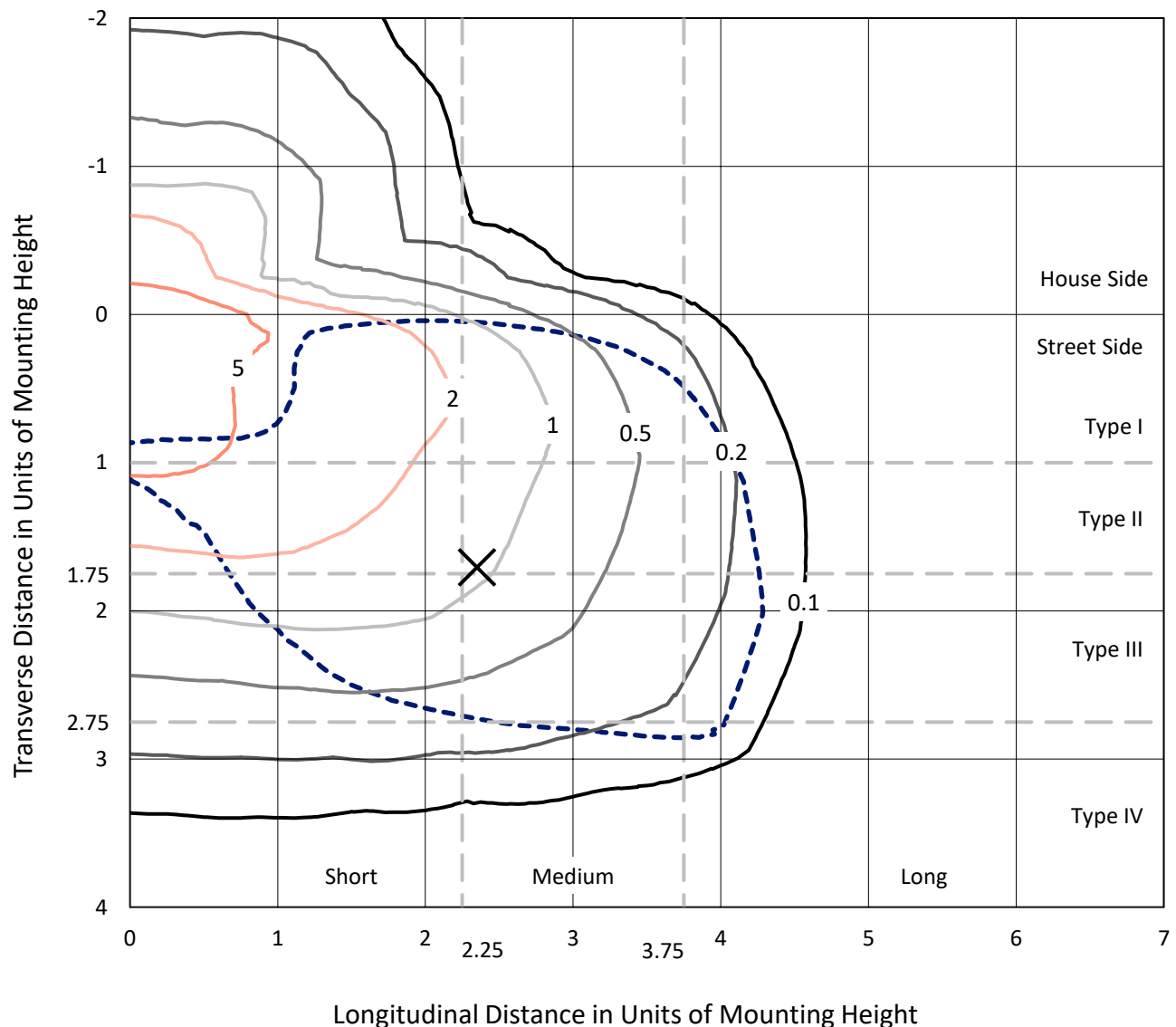


REPORT NUMBER: P456884

CATALOG NUMBER: GALN-SA8A-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

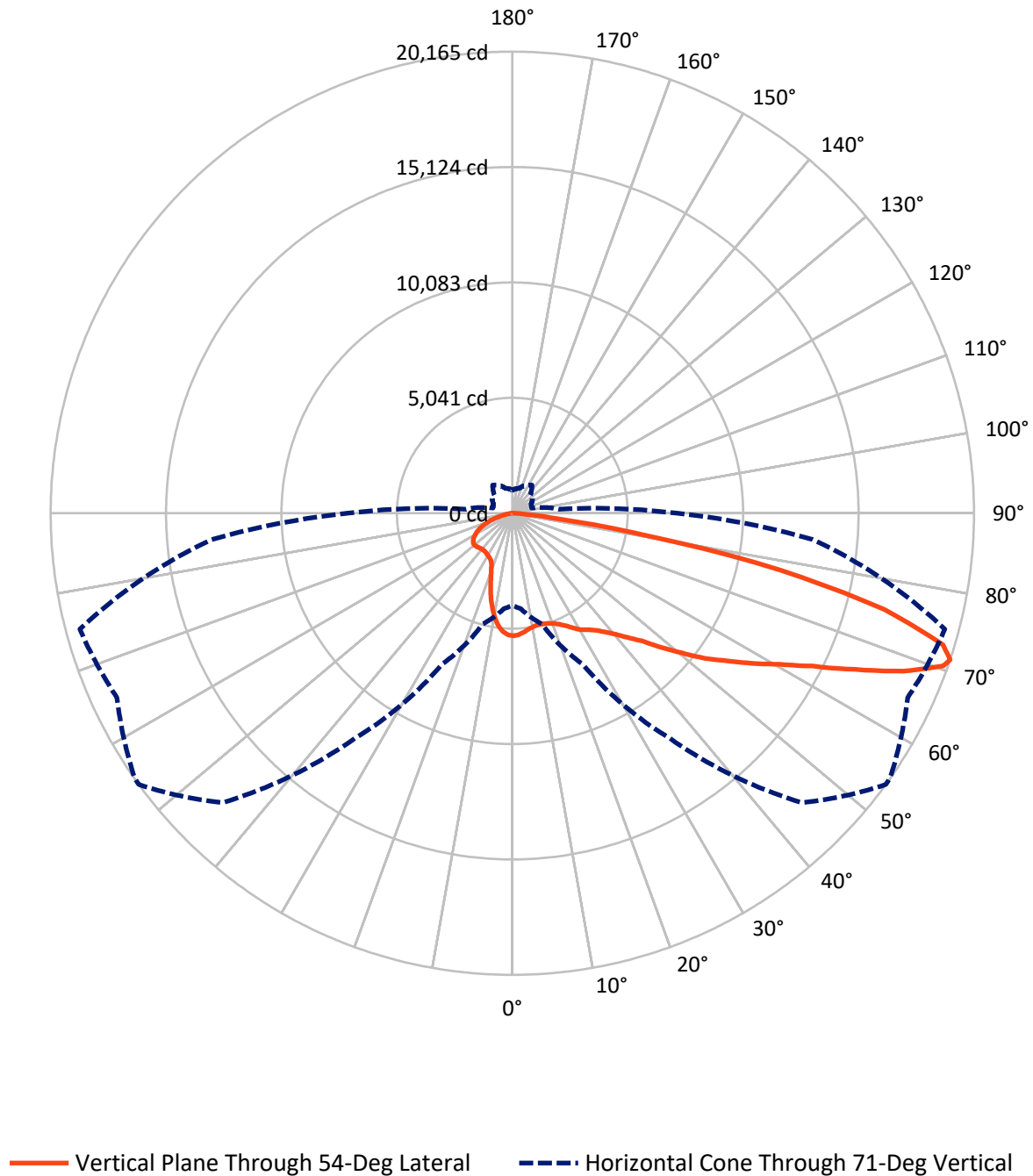


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P456884

CATALOG NUMBER: GALN-SA8A-830-U-T3R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5421.5	0.0	5421.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24607.5	0.0	24607.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	30029.0	0.0	30029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.4	1.6
10°-20°	1260.7	4.2
20°-30°	2099.1	7.0
30°-40°	3103.9	10.3
40°-50°	4371.9	14.6
50°-60°	5854.2	19.5
60°-70°	7378.8	24.6
70°-80°	5039.7	16.8
80°-90°	443.2	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°	30029.0	100.0
0°-180°	30029.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456884

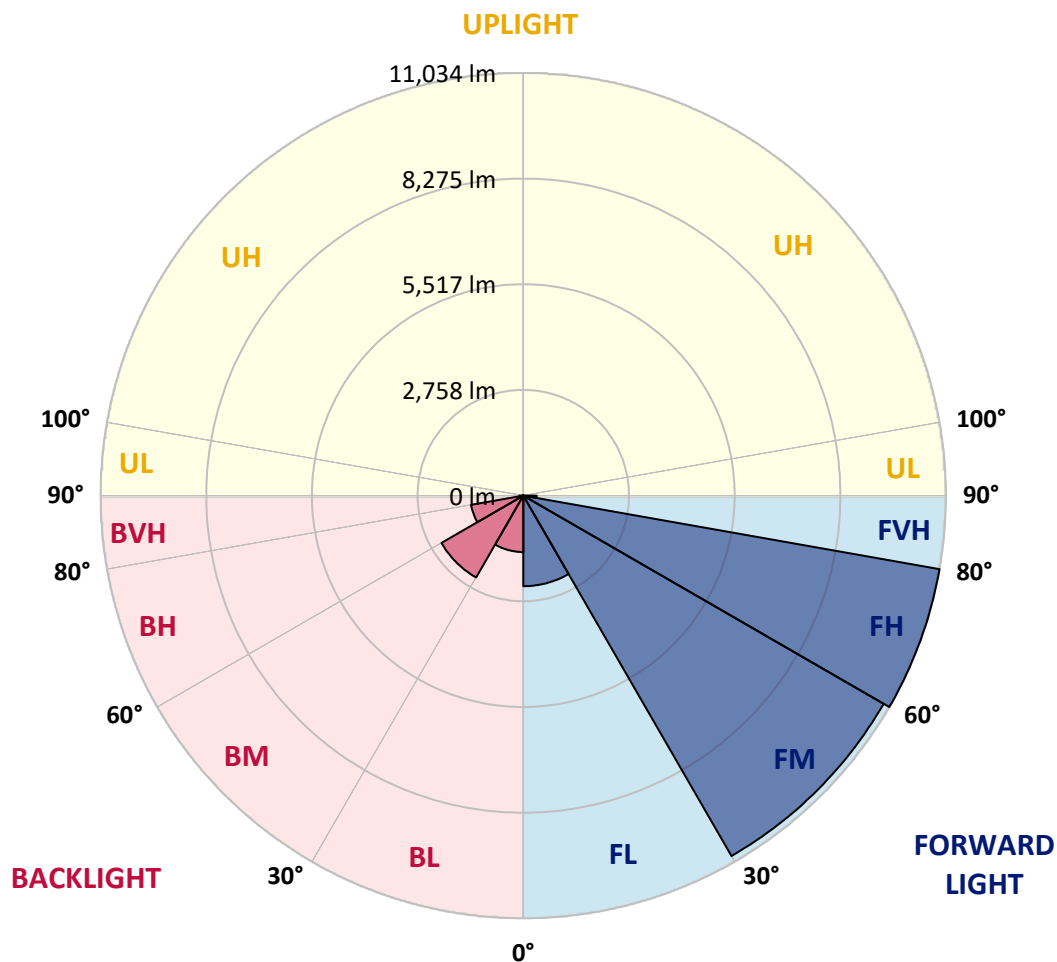
CATALOG NUMBER: GALN-SA8A-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2363.8	7.9			
FM	(30°-60°)	10863.4	36.2			
FH	(60°-80°)	11033.8	36.7			G4/12000
FVH	(80°-90°)	346.4	1.2			G3/500
BL	(0°-30°)	1473.5	4.9	B3/2500		
BM	(30°-60°)	2466.6	8.2	B2/2500		
BH	(60°-80°)	1384.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	96.8	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





REPORT NUMBER: P456884

CATALOG NUMBER: GALN-SA8A-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5357.6	5357.6	5357.6	5357.6	5357.6	5357.6	5357.6	5357.6	5357.6	5357.6	5357.6
2.5°	5175.9	5200.3	5206.8	5223.0	5257.1	5284.6	5312.2	5309.0	5347.9	5364.1	5378.7
5°	4945.6	4952.1	4976.4	5008.9	5068.9	5145.1	5219.7	5221.4	5317.1	5393.3	5430.6
7.5°	4776.9	4798.0	4814.2	4848.3	4911.6	4994.3	5112.7	5122.4	5292.7	5443.6	5523.1
10°	4666.6	4691.0	4708.8	4751.0	4814.2	4906.7	5034.8	5052.7	5274.9	5523.1	5662.6
12.5°	4566.1	4590.4	4606.6	4661.8	4744.5	4858.0	5002.4	5023.5	5281.4	5615.5	5815.0
15°	4627.7	4647.2	4640.7	4656.9	4712.0	4841.8	5015.4	5036.5	5305.7	5704.7	5965.9
17.5°	4901.8	4918.0	4864.5	4802.9	4776.9	4872.6	5055.9	5078.6	5354.4	5797.2	6120.0
20°	5305.7	5349.5	5232.7	5094.8	4969.9	4982.9	5140.3	5164.6	5422.5	5889.6	6277.3
22.5°	5831.3	5863.7	5721.0	5493.9	5263.5	5145.1	5266.8	5281.4	5524.7	6009.7	6449.3
25°	6449.3	6468.7	6270.8	5978.9	5646.3	5422.5	5440.3	5466.3	5693.4	6145.9	6601.7
27.5°	7049.4	7111.1	6882.3	6525.5	6087.5	5714.5	5678.8	5695.0	5876.7	6222.2	6707.2
30°	7761.5	7756.6	7514.9	7101.3	6540.1	6032.4	5904.2	5901.0	5975.6	6259.5	6783.4
32.5°	8329.2	8395.7	8158.9	7708.0	7057.5	6361.7	6060.0	6053.5	6051.9	6324.4	6896.9
35°	8974.8	8984.5	8767.2	8313.0	7617.1	6775.3	6277.3	6244.9	6207.6	6463.9	7051.0
37.5°	9552.2	9597.6	9398.1	8888.8	8167.0	7205.1	6575.8	6554.7	6441.1	6705.5	7297.6
40°	10003.2	10037.2	9917.2	9432.2	8708.8	7669.0	6955.3	6916.4	6778.5	7101.3	7626.9
42.5°	10150.8	10220.5	10267.6	10029.1	9331.6	8218.9	7422.5	7373.8	7268.4	7701.5	8006.4
45°	10162.1	10272.4	10520.6	10531.9	9957.7	8877.5	7967.5	7933.4	7925.3	8470.3	8540.1
47.5°	10076.2	10188.1	10604.9	10830.4	10515.7	9542.5	8754.2	8700.7	8705.5	9420.8	9138.6
50°	9868.5	10001.5	10507.6	11021.8	10952.1	10233.5	9584.7	9566.8	9667.4	10506.0	9759.9
52.5°	9477.6	9638.2	10407.0	11141.8	11276.5	10828.8	10528.7	10478.4	10733.1	11683.6	10439.5
55°	8395.7	8637.4	10038.8	11208.3	11584.7	11398.1	11378.7	11469.5	11806.9	12968.3	11187.3
57.5°	7831.2	8012.9	9239.2	11219.7	11973.9	12059.9	12371.3	12394.1	12984.5	14332.4	12032.3
60°	7523.0	7683.6	8801.2	11145.1	12517.3	12879.0	13386.7	13467.8	14134.5	15810.1	12908.2
62.5°	7253.8	7391.7	8538.5	10887.2	13130.5	14094.0	14702.2	14741.2	15440.3	17441.9	13772.8
65°	6619.6	6776.9	8009.7	10629.3	13659.3	15612.2	16447.5	16402.1	16830.4	18849.8	14314.6
67.5°	5764.8	5964.3	7021.8	9738.8	13920.4	17271.5	18413.5	18356.7	18202.6	19772.7	14470.3
70°	4673.1	4780.2	5758.3	8199.4	12877.4	18142.6	19965.8	19905.7	19052.6	19894.4	13733.9
71°	4021.1	4188.1	5013.7	7283.0	12009.6	17876.6	20165.3	20149.1	19054.2	19558.6	13179.1
72.5°	3138.7	3240.8	3970.8	5643.1	10207.5	16364.8	19672.2	19733.8	18640.6	18626.0	12035.6
75°	1985.4	2030.8	2491.5	3322.0	5600.9	11589.5	16793.0	16960.1	16551.4	15245.6	8950.5
77.5°	1153.3	1211.7	1492.3	1957.8	2420.1	6290.3	12016.1	12197.8	11500.3	8394.1	3664.2
80°	671.5	736.4	983.0	1137.1	1111.1	2334.1	6118.4	6428.2	4979.7	2120.0	1028.4
82.5°	373.1	416.9	691.0	692.6	592.0	762.4	1925.4	2014.6	1420.9	854.8	420.1
85°	270.9	306.6	446.1	403.9	283.9	327.7	669.9	702.3	574.2	360.1	136.3
87.5°	95.7	136.3	244.9	194.6	77.9	68.1	193.0	157.3	146.0	100.6	30.8
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°	5357.6	5357.6	5357.6	5357.6	5357.6	5357.6	5357.6	5357.6	5357.6	5357.6	5357.6
2.5°	5386.8	5390.1	5373.8	5344.6	5315.4	5278.1	5236.0	5203.5	5188.9	5187.3	5185.7
5°	5445.2	5453.3	5391.7	5300.8	5200.3	5077.0	4971.6	4851.5	4820.7	4772.1	4786.7
7.5°	5539.3	5534.4	5412.8	5219.7	4984.5	4723.4	4502.8	4374.7	4241.7	4204.3	4206.0
10°	5673.9	5643.1	5412.8	5054.3	4661.8	4274.1	3965.9	3771.3	3665.8	3578.2	3545.8
12.5°	5816.7	5738.8	5360.9	4822.3	4246.5	3771.3	3440.4	3177.6	3109.5	3038.1	3039.7
15°	5952.9	5823.1	5258.7	4496.3	3798.8	3234.4	2913.2	2755.9	2734.8	2742.9	2741.3
17.5°	6076.2	5883.2	5103.0	4133.0	3276.5	2773.7	2603.4	2614.7	2671.5	2712.1	2716.9
20°	6201.1	5918.8	4871.0	3646.4	2783.4	2494.7	2501.2	2590.4	2676.4	2731.5	2739.6
22.5°	6319.5	5935.1	4598.5	3176.0	2426.6	2376.3	2472.0	2567.7	2652.0	2705.6	2713.7
25°	6397.3	5897.8	4212.5	2684.5	2251.4	2334.1	2434.7	2515.8	2587.2	2642.3	2655.3
27.5°	6418.4	5777.7	3734.0	2287.1	2170.3	2293.6	2386.0	2446.0	2501.2	2553.1	2562.8
30°	6407.1	5600.9	3208.4	2053.5	2123.3	2246.5	2317.9	2361.7	2428.2	2468.8	2476.9
32.5°	6389.2	5394.9	2660.2	1928.6	2084.3	2202.7	2244.9	2283.8	2282.2	2266.0	2277.4
35°	6395.7	5148.4	2215.7	1854.0	2050.3	2170.3	2206.0	2157.3	2017.8	2011.3	2004.8
37.5°	6429.8	4905.1	1892.9	1802.1	2032.4	2165.4	2184.9	1961.1	1837.8	1781.0	1766.4
40°	6517.4	4621.2	1680.4	1763.2	2030.8	2202.7	2089.2	1862.1	1625.3	1515.0	1506.9
42.5°	6634.2	4342.2	1550.7	1738.8	2050.3	2259.5	2050.3	1722.6	1464.7	1399.8	1390.1
45°	6807.7	4022.7	1479.3	1727.5	2079.5	2280.6	2037.3	1620.4	1399.8	1347.9	1347.9
47.5°	7004.0	3717.7	1440.4	1719.4	2116.8	2266.0	1922.1	1588.0	1369.0	1375.5	1406.3
50°	7198.6	3453.3	1411.2	1701.5	2149.2	2257.9	1875.1	1586.4	1377.1	1459.8	1515.0
52.5°	7424.1	3266.8	1375.5	1672.3	2149.2	2206.0	1860.5	1618.8	1399.8	1424.2	1448.5
55°	7696.6	3208.4	1330.1	1609.1	2110.3	2076.2	1852.4	1665.8	1416.0	1359.3	1369.0
57.5°	8056.7	3302.5	1286.3	1529.6	2021.1	1941.6	1849.1	1678.8	1378.7	1331.7	1322.0
60°	8475.2	3489.0	1273.3	1448.5	1899.4	1826.4	1829.7	1641.5	1326.8	1278.2	1286.3
62.5°	8768.8	3600.9	1265.2	1386.8	1766.4	1699.9	1782.6	1596.1	1304.1	1262.0	1270.1
65°	8768.8	3464.7	1190.6	1292.8	1594.5	1547.4	1725.9	1539.3	1274.9	1226.3	1218.2
67.5°	8436.3	3067.3	1077.0	1151.7	1404.7	1373.9	1646.4	1471.2	1231.1	1193.8	1174.4
70°	7570.1	2326.0	934.3	986.2	1164.6	1192.2	1544.2	1378.7	1158.1	1112.7	1083.5
71°	7188.9	2025.9	874.3	901.9	1072.2	1112.7	1495.5	1339.8	1125.7	1060.8	1008.9
72.5°	6454.1	1706.4	783.4	794.8	916.5	989.4	1393.3	1265.2	1064.1	971.6	913.2
75°	4903.4	1245.7	631.0	624.5	678.0	785.1	1179.2	1127.3	932.7	807.8	773.7
77.5°	2118.4	678.0	472.0	476.9	460.7	595.3	927.8	968.4	799.7	656.9	626.1
80°	642.3	390.9	322.8	329.3	308.2	399.0	653.7	759.1	642.3	510.9	468.8
82.5°	329.3	233.6	220.6	217.4	196.3	225.5	395.8	519.1	459.0	319.5	282.2
85°	142.7	124.9	108.7	105.4	92.5	81.1	141.1	259.5	243.3	178.4	170.3
87.5°	35.7	32.4	21.1	19.5	11.4	1.6	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)