

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: P455726

Luminaire Tested: **GALN-SA6D-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36373 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368
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

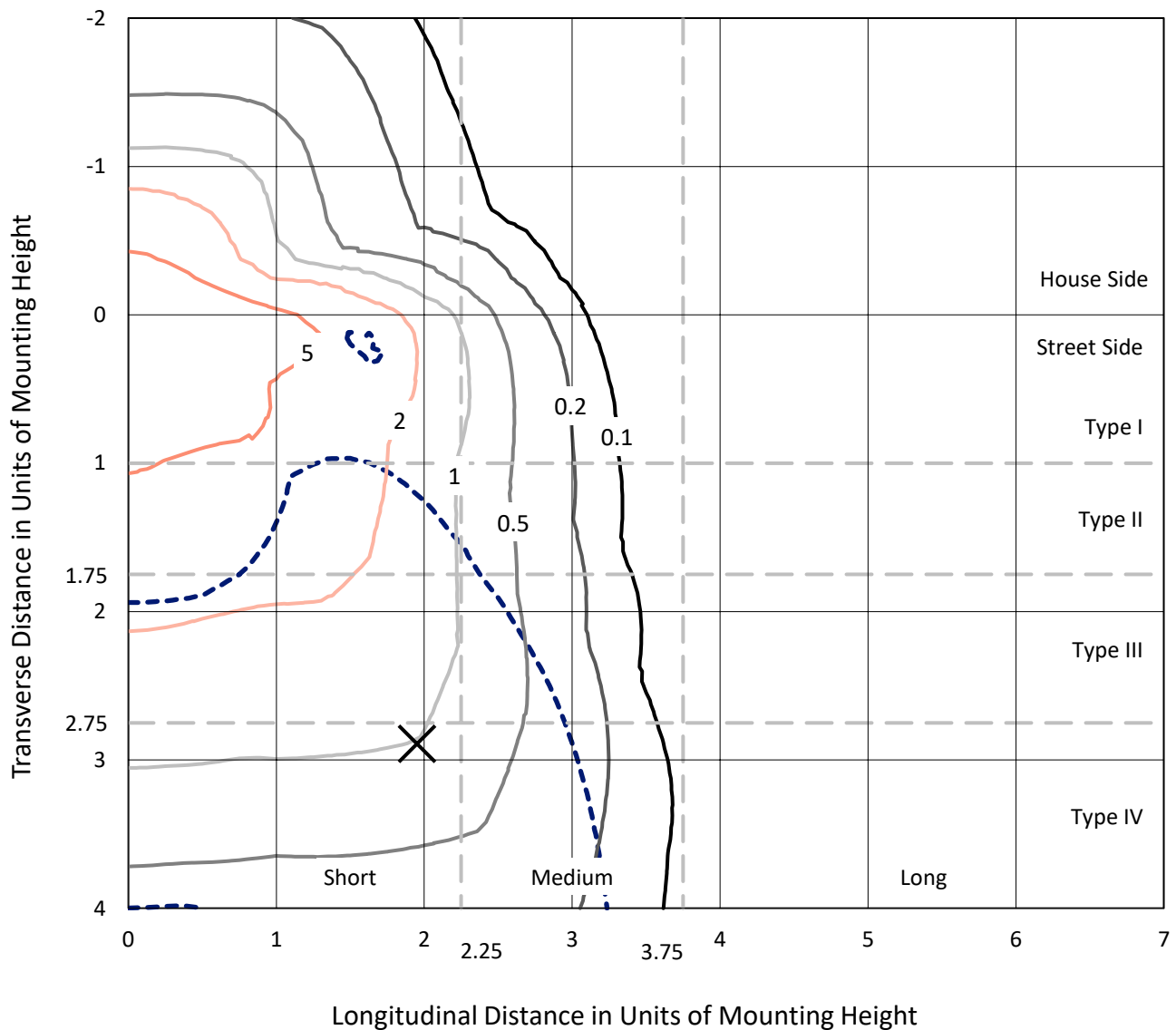


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

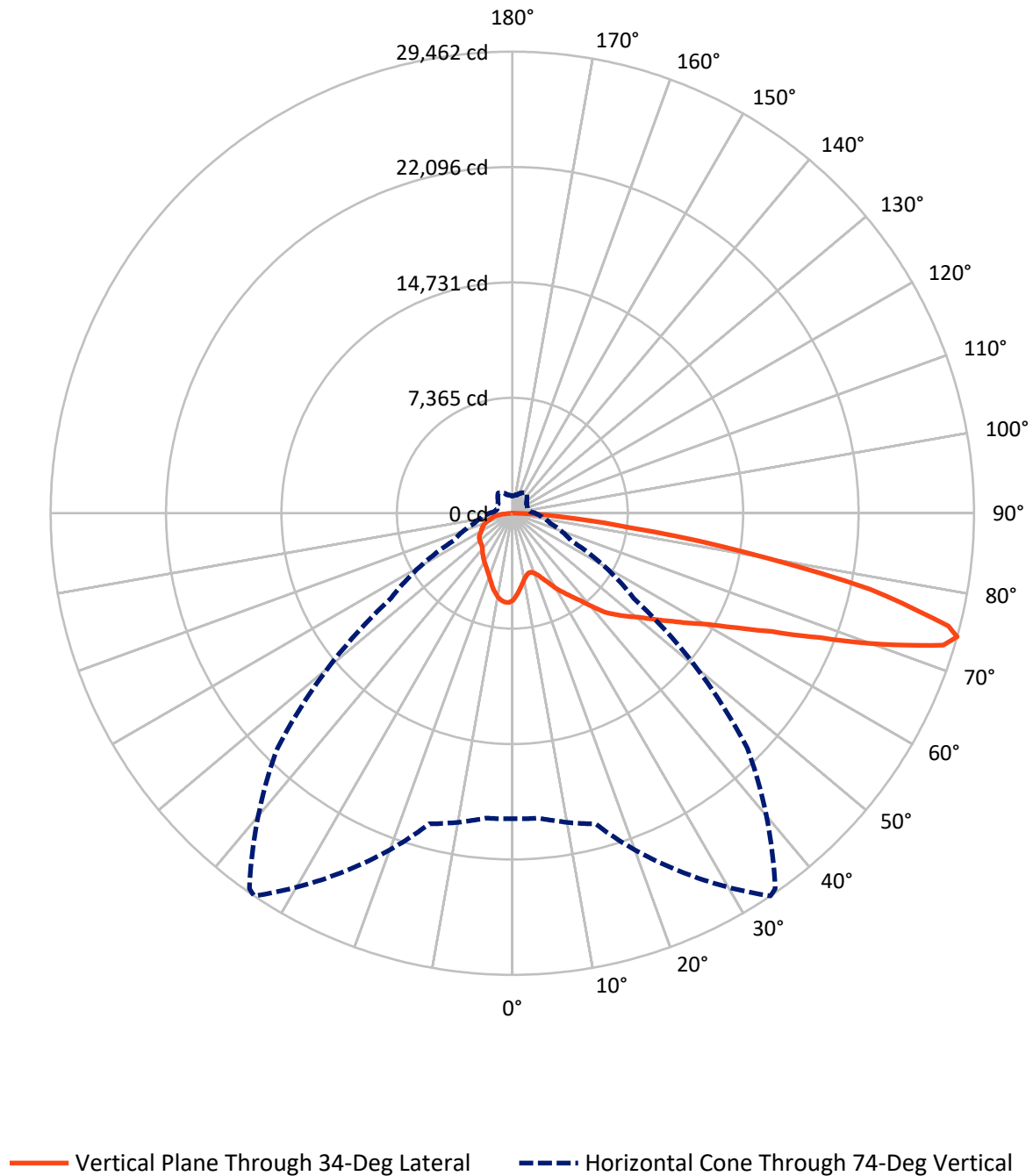


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7740.4	0.0	7740.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	28632.6	0.0	28632.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	36373.0	0.0	36373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.1	1.4
10°-20°	1382.6	3.8
20°-30°	2279.5	6.3
30°-40°	3414.5	9.4
40°-50°	4963.7	13.6
50°-60°	6933.1	19.1
60°-70°	8679.9	23.9
70°-80°	7177.6	19.7
80°-90°	1037.1	2.9
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°	36373.0	100.0
0°-180°	36373.0	100.0

Coefficient of Utilization



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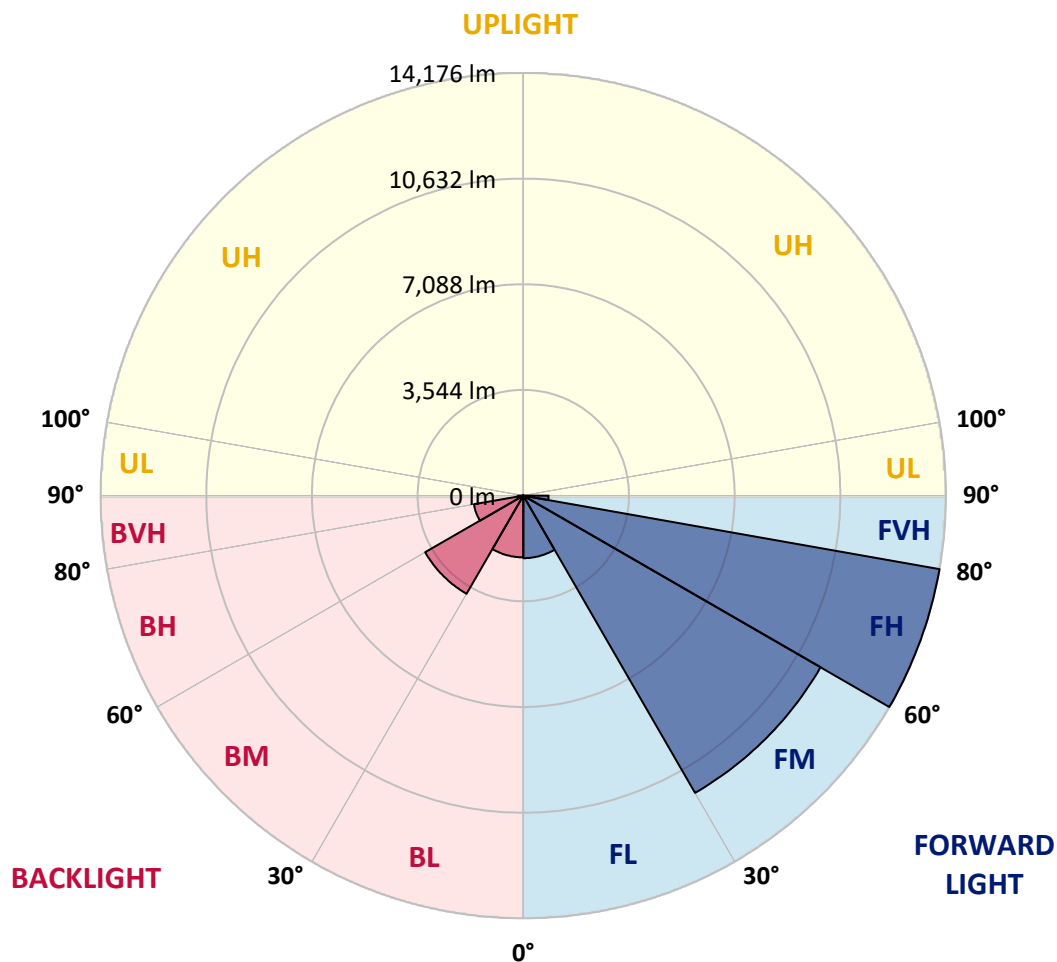
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2096.7	5.8			
FM	(30°-60°)	11509.9	31.6			
FH	(60°-80°)	14176.3	39.0			G5
FVH	(80°-90°)	849.6	2.3			G5
BL	(0°-30°)	2070.4	5.7	B3/2500		
BM	(30°-60°)	3801.3	10.5	B3/5000		
BH	(60°-80°)	1681.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	187.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4
2.5°	5132.3	5158.5	5172.6	5223.0	5235.1	5251.2	5293.5	5349.9	5422.5	5486.9	5543.4
5°	4705.1	4745.4	4769.6	4813.9	4900.6	4908.6	5021.5	5150.4	5297.5	5434.6	5547.4
7.5°	4300.1	4344.4	4364.6	4445.2	4560.0	4578.2	4743.4	4946.9	5192.7	5400.3	5573.6
10°	3995.8	4018.0	4062.3	4122.8	4259.8	4271.9	4487.5	4759.5	5077.9	5384.2	5617.9
12.5°	3830.6	3842.7	3852.7	3917.2	4052.2	4070.4	4296.1	4604.4	4987.2	5396.3	5690.5
15°	3854.8	3858.8	3814.5	3826.6	3935.4	3961.6	4185.2	4501.6	4930.8	5426.5	5799.3
17.5°	4058.3	4044.2	3935.4	3878.9	3955.5	3967.6	4163.1	4461.3	4904.6	5482.9	5912.1
20°	4378.7	4358.5	4171.1	4046.2	4090.5	4100.6	4235.6	4491.5	4930.8	5575.6	6087.4
22.5°	4777.6	4769.6	4485.5	4334.3	4332.3	4332.3	4402.9	4600.3	5009.4	5702.6	6270.8
25°	5335.8	5293.5	4922.7	4727.3	4672.9	4668.8	4660.8	4779.7	5110.1	5837.6	6488.4
27.5°	5908.1	5835.5	5505.1	5204.8	5088.0	5073.9	5021.5	5033.6	5239.1	5990.7	6736.3
30°	6421.9	6375.6	6065.3	5732.8	5593.7	5561.5	5416.4	5349.9	5454.7	6266.8	7131.2
32.5°	6814.8	6786.6	6544.8	6242.6	6037.0	6031.0	5819.4	5765.0	5791.2	6601.3	7582.6
35°	7133.2	7143.3	7020.4	6758.4	6522.7	6488.4	6347.4	6278.9	6202.3	7084.9	8150.8
37.5°	7568.5	7590.6	7582.6	7356.9	7068.7	7076.8	7044.6	6931.7	6728.2	7624.9	8781.5
40°	8048.1	8064.2	8062.2	7975.5	7824.4	7832.4	7820.4	7691.4	7387.1	8312.0	9482.8
42.5°	8711.0	8634.4	8434.9	8521.6	8610.2	8648.5	8731.1	8608.2	8191.1	9045.5	10141.7
45°	9452.5	9307.4	8856.1	8896.4	9224.8	9297.4	9752.8	9583.5	9063.6	9887.8	10917.5
47.5°	9920.0	9777.0	9396.1	9388.1	9823.3	9893.8	10699.8	10637.4	9857.6	10796.6	11864.5
50°	10337.1	10317.0	9887.8	9990.5	10415.7	10520.5	11731.5	11673.1	10649.5	11868.6	12896.2
52.5°	10955.7	10792.5	10450.0	10661.6	11223.7	11360.8	12755.2	12583.9	11376.9	12815.6	13897.7
55°	11233.8	11195.5	11175.4	11358.8	12130.5	12229.3	13750.6	13357.7	11997.5	13617.6	14659.4
57.5°	11977.4	11906.8	12106.3	12231.3	13198.5	13349.6	14790.4	14165.7	12541.6	14254.4	15030.1
60°	12940.6	12902.3	13085.6	13311.3	14391.4	14621.1	15975.2	14854.8	12978.8	14574.8	14826.6
62.5°	14379.3	14375.3	14341.0	14824.6	16082.0	16293.6	17335.4	15525.8	13047.4	14335.0	13774.8
65°	16442.7	16370.1	16071.9	16599.9	18185.7	18433.5	18751.9	15900.6	12634.3	13103.8	11598.5
67.5°	18600.8	18596.8	18355.0	19040.1	21206.2	21462.1	20523.1	15818.0	11487.7	10615.2	8237.5
70°	20390.1	20303.5	20611.8	22437.4	25065.0	25361.2	22072.7	14844.8	9150.3	7010.3	4894.5
72.5°	20819.3	20823.4	21464.2	25057.0	28770.7	28817.0	22630.9	12031.8	6123.7	3866.9	2448.3
74°	19497.5	19531.7	20525.2	25187.9	29461.8	29252.3	21204.2	9456.6	4140.9	2524.8	1765.2
75°	17796.8	17581.2	19017.9	24315.4	28744.5	28518.8	19533.8	7588.6	3159.6	2017.1	1545.5
77.5°	9515.0	9734.6	11951.2	18145.4	23352.2	23092.3	13244.8	3639.2	1706.7	1404.5	1112.3
80°	3387.3	3735.9	5251.2	9494.8	14971.7	15052.3	6321.2	1668.4	1201.0	1035.7	785.9
82.5°	1382.3	1420.6	2254.8	4213.4	7602.7	7675.3	2581.3	991.4	858.4	713.3	469.5
85°	540.0	556.1	997.4	1894.1	3244.2	3455.8	892.7	523.9	527.9	409.1	239.8
87.5°	181.4	205.5	409.1	630.7	1102.2	1080.1	259.9	155.2	189.4	177.3	74.6
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°	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4	5553.4
2.5°	5571.6	5609.9	5636.1	5664.3	5690.5	5698.5	5692.5	5710.6	5712.6	5714.6	5716.7
5°	5603.8	5656.2	5706.6	5734.8	5746.9	5736.8	5702.6	5684.4	5668.3	5656.2	5660.2
7.5°	5648.1	5722.7	5769.0	5781.1	5748.9	5702.6	5617.9	5551.4	5509.1	5480.9	5478.9
10°	5716.7	5789.2	5827.5	5793.2	5704.6	5591.7	5458.7	5333.8	5239.1	5210.9	5208.9
12.5°	5803.3	5885.9	5883.9	5783.2	5628.0	5426.5	5210.9	5065.8	4936.8	4872.4	4898.6
15°	5916.1	5978.6	5920.2	5738.8	5493.0	5216.9	4950.9	4753.5	4608.4	4539.9	4543.9
17.5°	6047.1	6101.5	5946.4	5660.2	5303.6	4948.9	4640.6	4453.2	4338.4	4288.0	4284.0
20°	6210.3	6226.5	5946.4	5523.2	5059.8	4636.6	4342.4	4211.4	4146.9	4120.7	4128.8
22.5°	6385.6	6353.4	5914.1	5329.8	4739.4	4310.2	4112.7	4054.3	4022.0	4018.0	4022.0
25°	6583.1	6492.4	5847.6	5067.8	4404.9	4028.1	3913.2	3923.3	3929.3	3929.3	3943.4
27.5°	6824.9	6643.6	5736.8	4737.3	4014.0	3766.1	3733.9	3804.4	3836.6	3842.7	3852.7
30°	7143.3	6808.8	5553.4	4324.3	3681.5	3530.3	3586.8	3681.5	3717.7	3739.9	3735.9
32.5°	7522.1	6990.2	5305.6	3911.2	3413.5	3365.1	3433.6	3530.3	3570.6	3582.7	3566.6
35°	7967.5	7195.7	4979.2	3524.3	3179.7	3207.9	3288.5	3318.8	3355.0	3355.0	3363.1
37.5°	8447.0	7360.9	4580.2	3169.7	2998.4	3101.1	3159.6	3131.4	3115.2	3095.1	3105.2
40°	8934.7	7483.8	4062.3	2819.0	2817.0	2990.3	3006.4	2925.8	2861.4	2841.2	2831.1
42.5°	9359.8	7560.4	3594.8	2547.0	2645.7	2881.5	2893.6	2764.6	2661.9	2601.4	2581.3
45°	9861.6	7649.1	3137.4	2321.3	2486.6	2794.9	2825.1	2651.8	2500.7	2373.7	2341.5
47.5°	10548.7	7850.6	2776.7	2146.0	2371.7	2740.4	2782.8	2559.1	2359.6	2194.4	2168.2
50°	11324.5	8126.6	2496.6	2027.1	2283.0	2692.1	2744.5	2464.4	2228.6	2045.3	2025.1
52.5°	12035.8	8275.8	2254.8	1920.3	2196.4	2603.4	2694.1	2395.9	2099.7	1896.1	1878.0
55°	12424.7	8033.9	2017.1	1815.5	2077.5	2488.6	2623.6	2301.2	1974.7	1817.6	1791.4
57.5°	12477.1	7534.2	1801.4	1702.7	1952.6	2347.5	2492.6	2186.3	1894.1	1763.2	1741.0
60°	12072.1	6788.7	1634.2	1610.0	1825.6	2188.3	2345.5	2085.6	1811.5	1702.7	1680.5
62.5°	11064.6	5978.6	1517.3	1525.4	1696.7	2021.1	2236.7	1988.8	1732.9	1636.2	1616.1
65°	9331.6	4934.8	1404.5	1438.7	1581.8	1890.1	2138.0	1908.2	1654.3	1585.8	1567.7
67.5°	6482.4	3562.6	1311.8	1348.1	1473.0	1757.1	2023.1	1821.6	1565.7	1529.4	1501.2
70°	3588.8	2192.4	1203.0	1245.3	1360.1	1608.0	1894.1	1690.6	1436.7	1420.6	1380.3
72.5°	1886.1	1396.4	1080.1	1126.4	1207.0	1416.6	1696.7	1547.5	1309.8	1241.3	1188.9
74°	1473.0	1144.5	997.4	1045.8	1100.2	1303.7	1579.8	1444.8	1219.1	1138.5	1098.2
75°	1283.6	1019.6	926.9	989.4	1037.7	1227.2	1489.1	1372.2	1168.7	1092.1	1055.9
77.5°	906.8	763.7	757.7	832.2	858.4	1076.0	1342.0	1249.3	1041.8	961.2	926.9
80°	636.8	572.3	600.5	646.8	683.1	951.1	1245.3	1080.1	854.4	759.7	747.6
82.5°	415.1	374.8	429.2	471.5	483.6	701.2	1005.5	820.1	622.6	505.8	469.5
85°	191.4	187.4	245.8	239.8	237.8	342.6	596.5	479.6	358.7	268.0	251.9
87.5°	48.4	46.3	60.5	50.4	60.5	52.4	54.4	14.1	2.0	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)