

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: P528714

Luminaire Tested: **GALN-SA3D-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20159 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

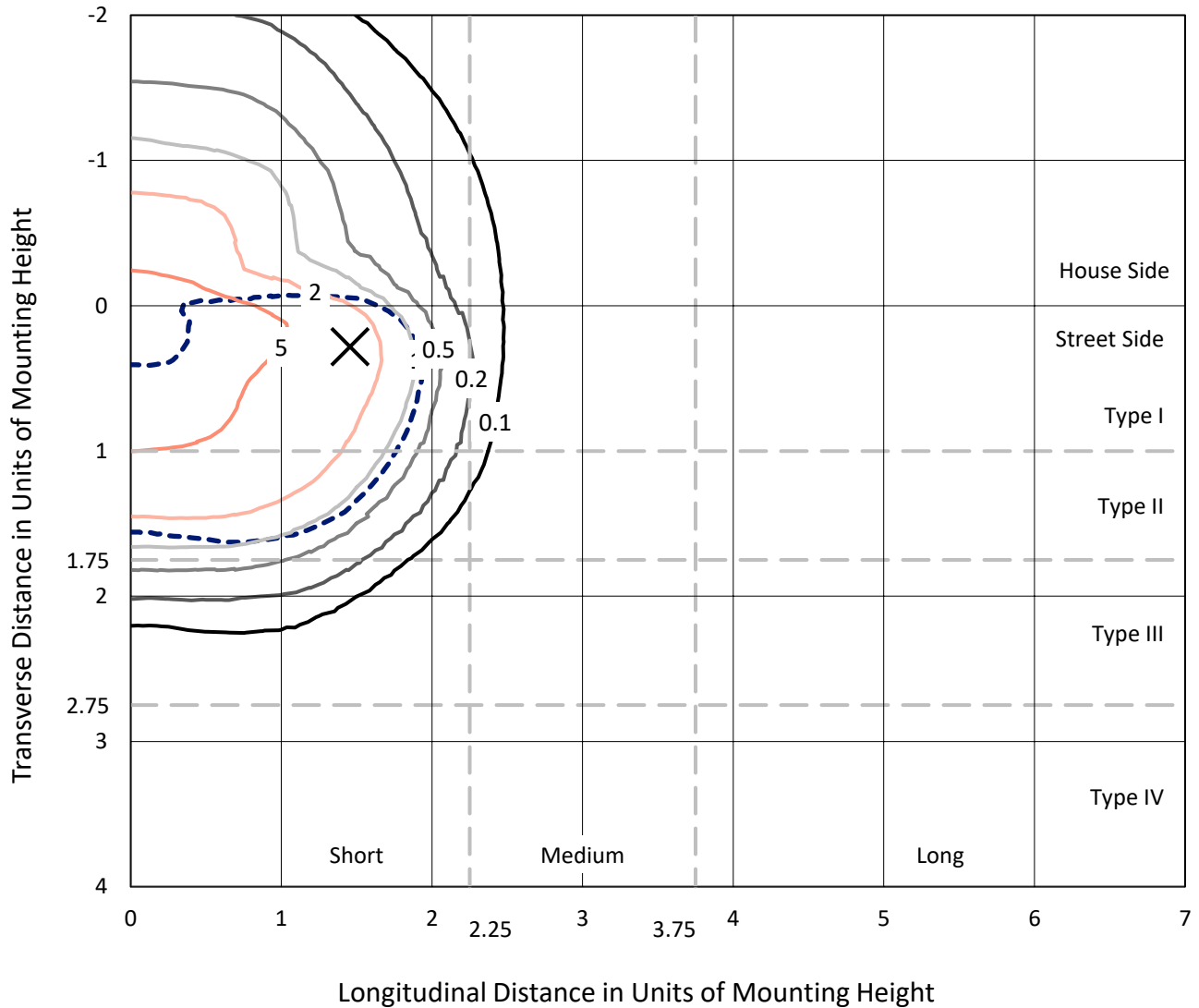
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

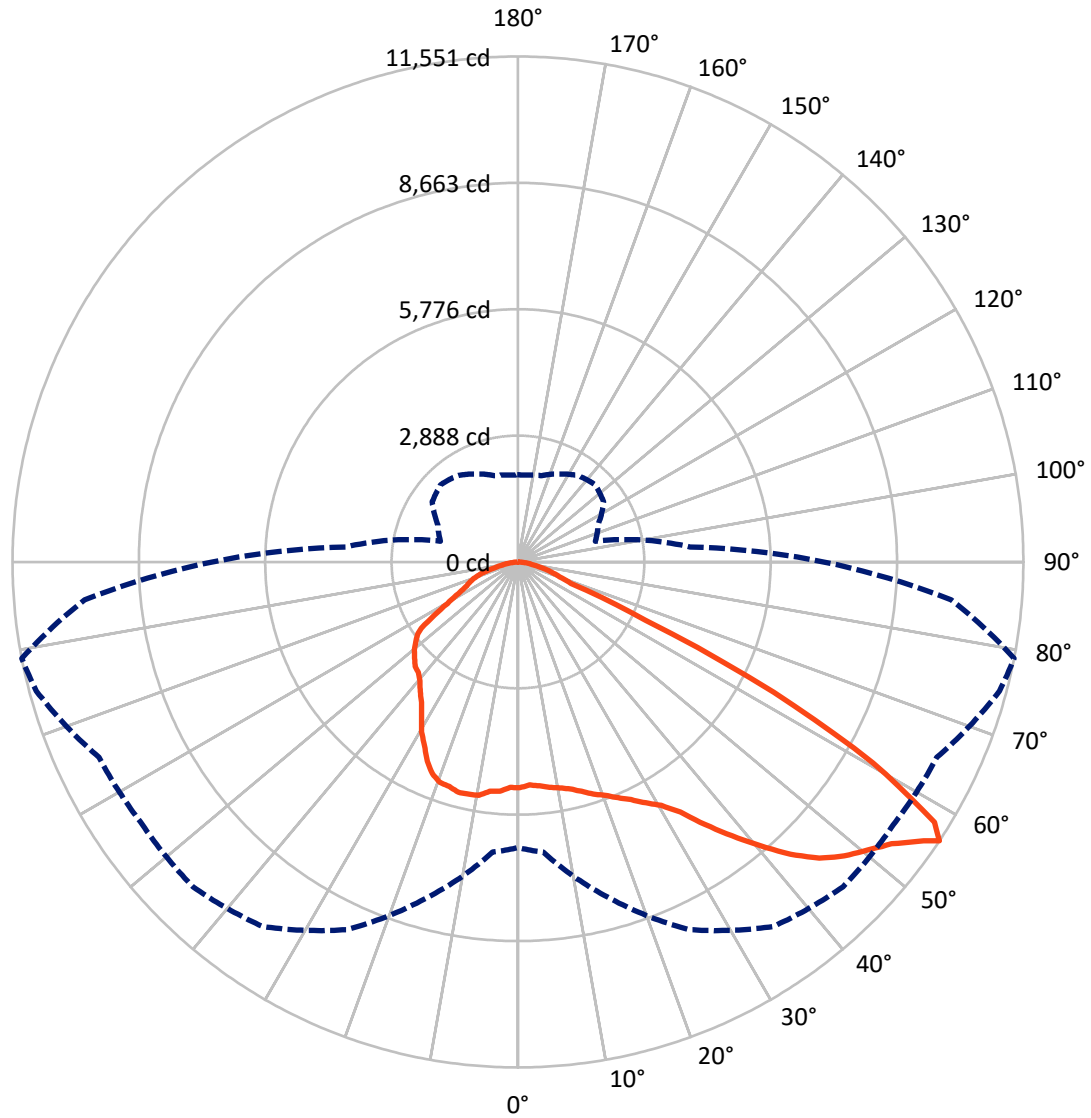
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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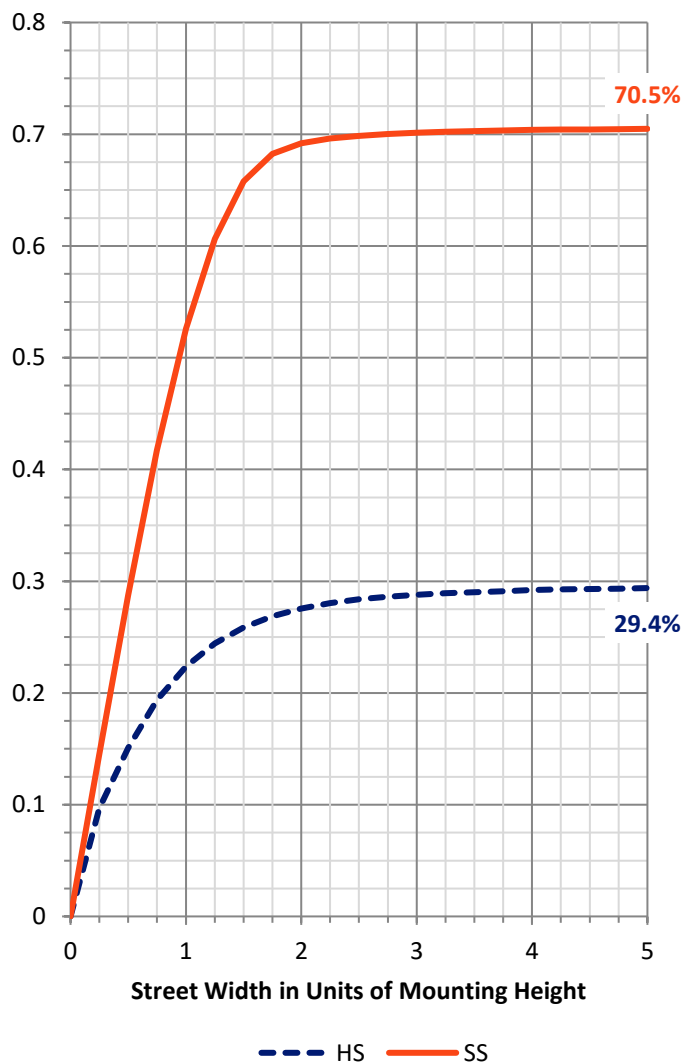
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5953.4	0.0	5953.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	14205.6	0.0	14205.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	20159.0	0.0	20159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.9	2.3
10°-20°	1283.4	6.4
20°-30°	2195.6	10.9
30°-40°	3365.1	16.7
40°-50°	4547.9	22.6
50°-60°	5223.4	25.9
60°-70°	2381.0	11.8
70°-80°	587.0	2.9
80°-90°	106.7	0.5
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°	20159.0	100.0
0°-180°	20159.0	100.0

Coefficient of Utilization

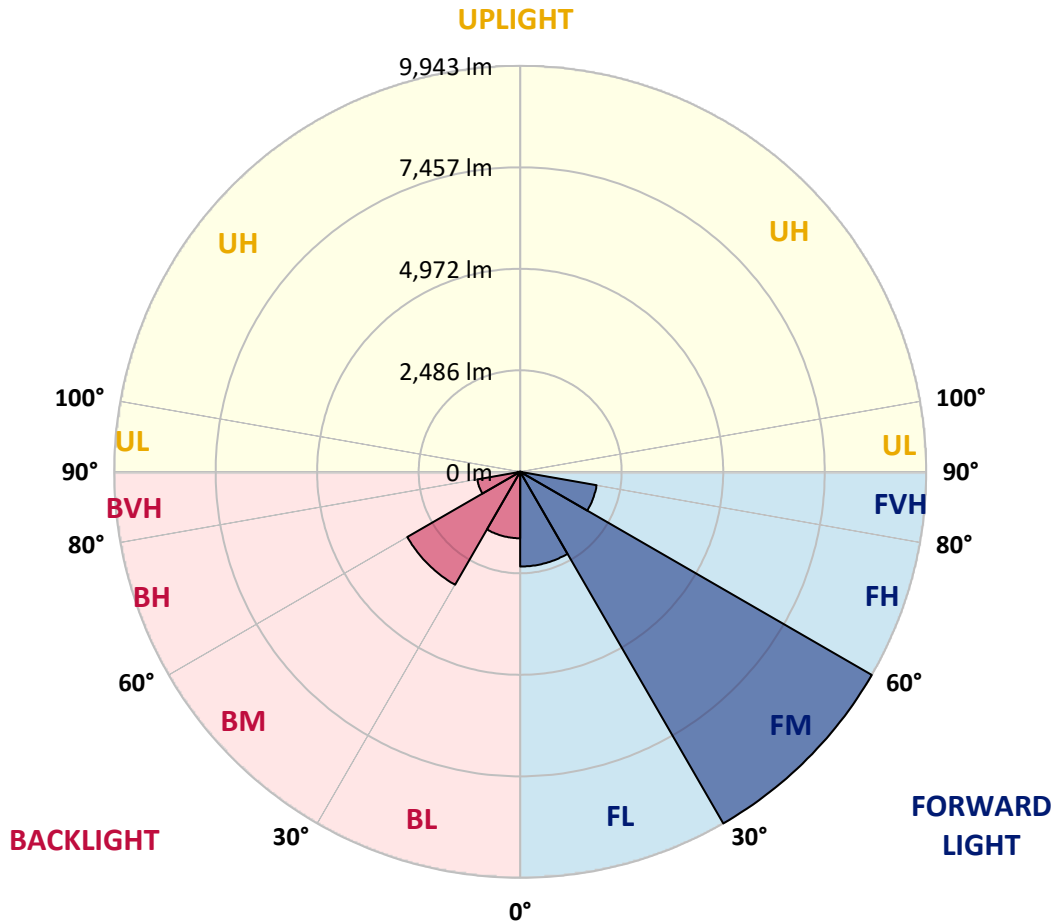


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2319.5	11.5			
FM (30°-60°)	9943.0	49.3			
FH (60°-80°)	1900.5	9.4			G2/5000
FVH (80°-90°)	42.6	0.2			G1/100
BL (0°-30°)	1628.5	8.1	B3/2500		
BM (30°-60°)	3193.3	15.8	B3/5000		
BH (60°-80°)	1067.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	64.1	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9
2.5°	4906.8	4894.2	4924.4	4947.0	4974.6	5009.7	5027.3	5037.4	5125.2	5102.6	5170.4
5°	4801.3	4768.7	4791.3	4808.8	4856.6	4899.2	4947.0	5022.3	5102.6	5137.8	5220.7
7.5°	4708.4	4690.8	4685.8	4698.4	4763.6	4818.9	4901.8	5012.2	5142.8	5200.6	5248.3
10°	4555.2	4530.1	4567.8	4650.6	4668.2	4783.7	4879.2	5037.4	5150.4	5250.8	5391.4
12.5°	4487.4	4462.3	4469.8	4517.5	4640.6	4751.1	4864.1	5042.4	5280.9	5321.1	5509.4
15°	4595.4	4570.3	4577.8	4565.3	4683.3	4741.0	4919.3	5142.8	5371.3	5439.1	5640.0
17.5°	4841.5	4844.0	4811.4	4783.7	4756.1	4879.2	5002.2	5203.1	5406.5	5577.3	5727.9
20°	5311.1	5228.2	5162.9	5007.2	4964.5	5017.3	5173.0	5366.3	5549.6	5690.3	5861.0
22.5°	5672.7	5680.2	5587.3	5331.2	5238.2	5260.8	5393.9	5552.1	5753.0	5853.5	6049.3
25°	6197.5	6144.8	6044.3	5840.9	5632.5	5650.1	5748.0	5891.1	5946.4	6016.7	6230.1
27.5°	6677.1	6692.2	6493.8	6303.0	6044.3	5994.1	6169.9	6195.0	6102.1	6235.2	6308.0
30°	7164.3	7151.7	7021.2	6797.7	6544.0	6554.1	6631.9	6508.9	6380.8	6453.6	6503.9
32.5°	7669.0	7525.9	7520.9	7320.0	7126.6	7033.7	6938.3	6998.6	6800.2	6815.2	6767.5
35°	8073.3	8093.4	7977.9	7834.8	7739.3	7576.1	7315.0	7422.9	7385.3	7367.7	7161.8
37.5°	8367.1	8289.3	8347.0	8299.3	8208.9	8005.5	7734.3	7837.3	7854.9	7940.2	7701.7
40°	8608.2	8575.6	8728.7	8753.8	8691.1	8251.6	7764.5	8070.8	8334.5	8520.3	8236.6
42.5°	8723.7	8794.0	8954.7	9148.1	9007.5	8537.9	7920.1	8249.1	8836.7	9130.5	8743.8
45°	8879.4	8789.0	9027.6	9381.6	9384.1	8779.0	8070.8	8490.2	9228.5	9655.3	9090.3
47.5°	8721.2	8766.4	9012.5	9462.0	9577.5	9032.6	8477.6	8831.7	9660.4	10039.6	9411.8
50°	8367.1	8457.5	8907.0	9374.1	9723.1	9301.3	8944.7	9200.8	10059.6	10348.4	9464.5
52.5°	7998.0	8048.2	8751.3	9441.9	9788.4	9647.8	9570.0	9710.6	10546.8	10697.5	9529.8
55°	6993.5	7232.1	8236.6	9411.8	10107.4	10273.1	10212.8	10418.7	11099.3	11249.9	9886.4
56°	6529.0	6654.5	7927.7	9271.1	10170.1	10501.6	10471.5	10564.4	11393.1	11551.3	9941.6
57.5°	5670.2	5680.2	6760.0	8648.4	9934.1	10569.4	10539.3	10612.1	11335.3	11227.3	9457.0
60°	3548.2	3703.9	4600.4	6652.0	8447.5	9806.0	9976.8	9391.7	9557.4	9328.9	7357.7
62.5°	1838.2	1815.6	2410.7	3889.8	5607.4	7021.2	7179.4	7151.7	6895.6	6561.6	4806.3
65°	916.6	921.6	1260.6	1926.0	2872.7	3676.3	4118.3	4166.0	3485.5	3206.7	2280.1
67.5°	665.5	690.6	906.5	1177.7	1353.5	1514.2	1855.7	1820.6	1378.6	1310.8	1215.4
70°	517.3	539.9	735.8	899.0	816.1	816.1	888.9	919.1	981.9	1009.5	1042.1
72.5°	376.7	394.2	562.5	620.3	534.9	575.1	665.5	735.8	801.1	811.1	848.8
75°	258.6	273.7	369.1	341.5	321.4	396.8	487.2	552.5	600.2	625.3	647.9
77.5°	168.2	173.3	210.9	178.3	205.9	256.1	316.4	371.6	419.4	439.5	444.5
80°	75.3	82.9	90.4	113.0	143.1	183.3	226.0	271.2	301.3	308.9	323.9
82.5°	42.7	42.7	55.2	80.4	105.5	133.1	163.2	195.9	231.0	238.6	236.0
85°	22.6	22.6	32.6	47.7	65.3	77.8	75.3	77.8	82.9	95.4	92.9
87.5°	7.5	7.5	10.0	10.0	12.6	15.1	12.6	17.6	22.6	22.6	22.6
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°	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9
2.5°	5150.4	5173.0	5142.8	5208.1	5208.1	5195.6	5132.8	5152.9	5167.9	5167.9	5180.5
5°	5248.3	5240.8	5260.8	5183.0	5135.3	5117.7	5014.8	4964.5	4921.8	4919.3	4881.7
7.5°	5303.5	5283.4	5275.9	5218.2	5007.2	4879.2	4658.2	4530.1	4502.5	4404.5	4442.2
10°	5391.4	5429.1	5391.4	5077.5	4783.7	4489.9	4274.0	4075.6	3997.7	3935.0	3897.3
12.5°	5572.2	5554.7	5336.2	4911.8	4500.0	4150.9	3829.5	3621.1	3543.2	3488.0	3483.0
15°	5725.4	5637.5	5303.5	4650.6	4058.0	3686.4	3422.7	3274.5	3239.4	3244.4	3267.0
17.5°	5778.1	5717.9	5132.8	4379.4	3729.0	3292.1	3169.1	3146.5	3179.1	3216.8	3226.8
20°	5861.0	5765.6	5062.5	4010.3	3322.2	3046.0	3038.5	3118.8	3179.1	3234.4	3241.9
22.5°	6034.3	5793.2	4834.0	3661.2	3043.5	2973.2	3046.0	3113.8	3206.7	3251.9	3211.8
25°	6084.5	5732.9	4512.5	3241.9	2867.7	2928.0	3005.8	3098.8	3164.0	3189.2	3206.7
27.5°	6127.2	5640.0	4078.1	2963.1	2812.5	2925.5	3005.8	3083.7	3118.8	3141.4	3161.5
30°	6247.7	5612.4	3701.4	2777.3	2777.3	2875.3	2978.2	2998.3	3046.0	3073.6	3108.8
32.5°	6308.0	5421.6	3314.7	2659.3	2742.2	2900.4	2907.9	2945.6	2948.1	2970.7	2933.0
35°	6466.2	5286.0	2955.6	2573.9	2757.2	2875.3	2912.9	2890.3	2767.3	2707.0	2719.6
37.5°	6581.7	5218.2	2697.0	2563.9	2759.7	2902.9	2923.0	2752.2	2624.1	2523.7	2548.8
40°	6893.1	5049.9	2501.1	2546.3	2782.3	2933.0	2877.8	2691.9	2460.9	2358.0	2340.4
42.5°	7131.6	4929.4	2378.1	2526.2	2799.9	2975.7	2855.2	2571.4	2335.4	2239.9	2265.1
45°	7407.9	4901.8	2312.8	2531.2	2830.1	2998.3	2827.5	2478.5	2227.4	2189.7	2182.2
47.5°	7505.8	4703.4	2242.5	2488.5	2822.5	2990.8	2734.6	2408.2	2187.2	2192.2	2212.3
50°	7342.6	4500.0	2189.7	2400.7	2772.3	2923.0	2589.0	2315.3	2164.6	2227.4	2262.5
52.5°	7134.2	4291.5	2081.7	2282.6	2669.3	2817.5	2521.2	2310.3	2142.0	2121.9	2129.5
55°	7196.9	4120.8	1931.1	2121.9	2503.6	2621.6	2445.9	2262.5	2086.8	2011.4	2036.5
56°	6993.5	3945.0	1833.1	2021.5	2390.6	2496.1	2408.2	2219.9	2041.6	1991.3	1991.3
57.5°	6418.5	3354.9	1705.1	1860.8	2152.1	2277.6	2335.4	2194.7	1991.3	1903.4	1906.0
60°	4733.5	2385.6	1529.3	1639.8	1782.9	1883.4	2152.1	2124.4	1865.8	1805.5	1782.9
62.5°	2917.9	1742.7	1403.7	1446.4	1519.2	1602.1	1878.3	1923.5	1732.7	1667.4	1652.3
65°	1634.8	1333.4	1308.3	1325.9	1361.0	1403.7	1559.4	1659.9	1529.3	1428.8	1423.8
67.5°	1195.3	1192.8	1212.9	1227.9	1243.0	1243.0	1280.7	1320.9	1303.3	1222.9	1215.4
70°	1062.2	1069.7	1084.8	1087.3	1092.3	1074.8	1044.6	1032.1	1052.2	1001.9	991.9
72.5°	876.4	901.5	919.1	921.6	894.0	871.4	831.2	788.5	773.4	763.4	760.9
75°	673.0	690.6	698.1	695.6	685.5	652.9	605.2	562.5	534.9	504.7	519.8
77.5°	454.5	479.6	492.2	492.2	477.1	426.9	404.3	371.6	344.0	311.4	316.4
80°	318.9	336.5	356.6	354.1	329.0	303.8	271.2	241.1	218.5	193.4	190.8
82.5°	238.6	248.6	258.6	253.6	236.0	210.9	188.3	160.7	135.6	118.0	118.0
85°	85.4	92.9	113.0	118.0	128.1	128.1	108.0	90.4	72.8	60.3	60.3
87.5°	25.1	25.1	27.6	27.6	25.1	27.6	22.6	25.1	27.6	17.6	17.6
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)