

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: P531438

Luminaire Tested: **GALN-SA6D-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32180 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

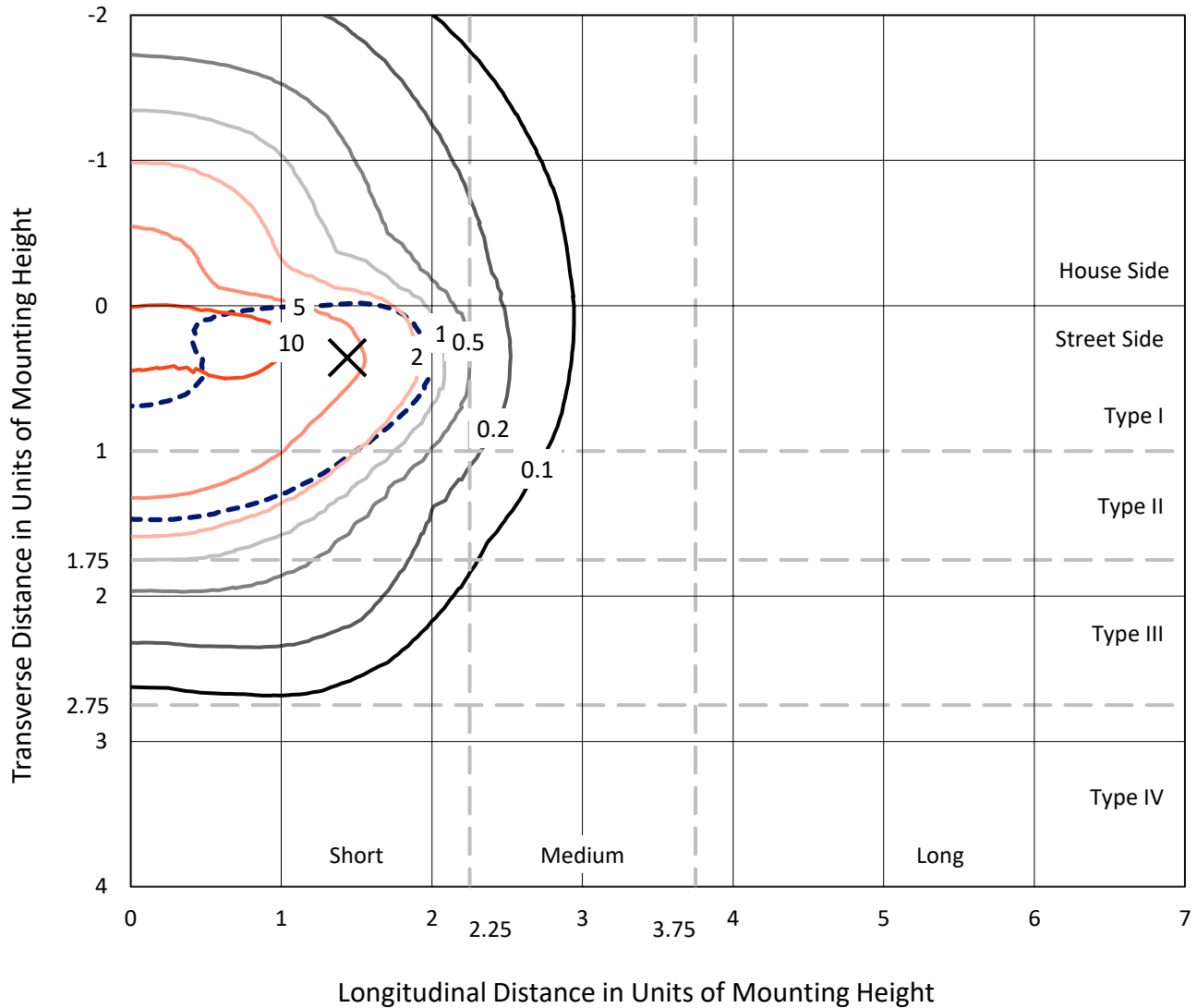
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

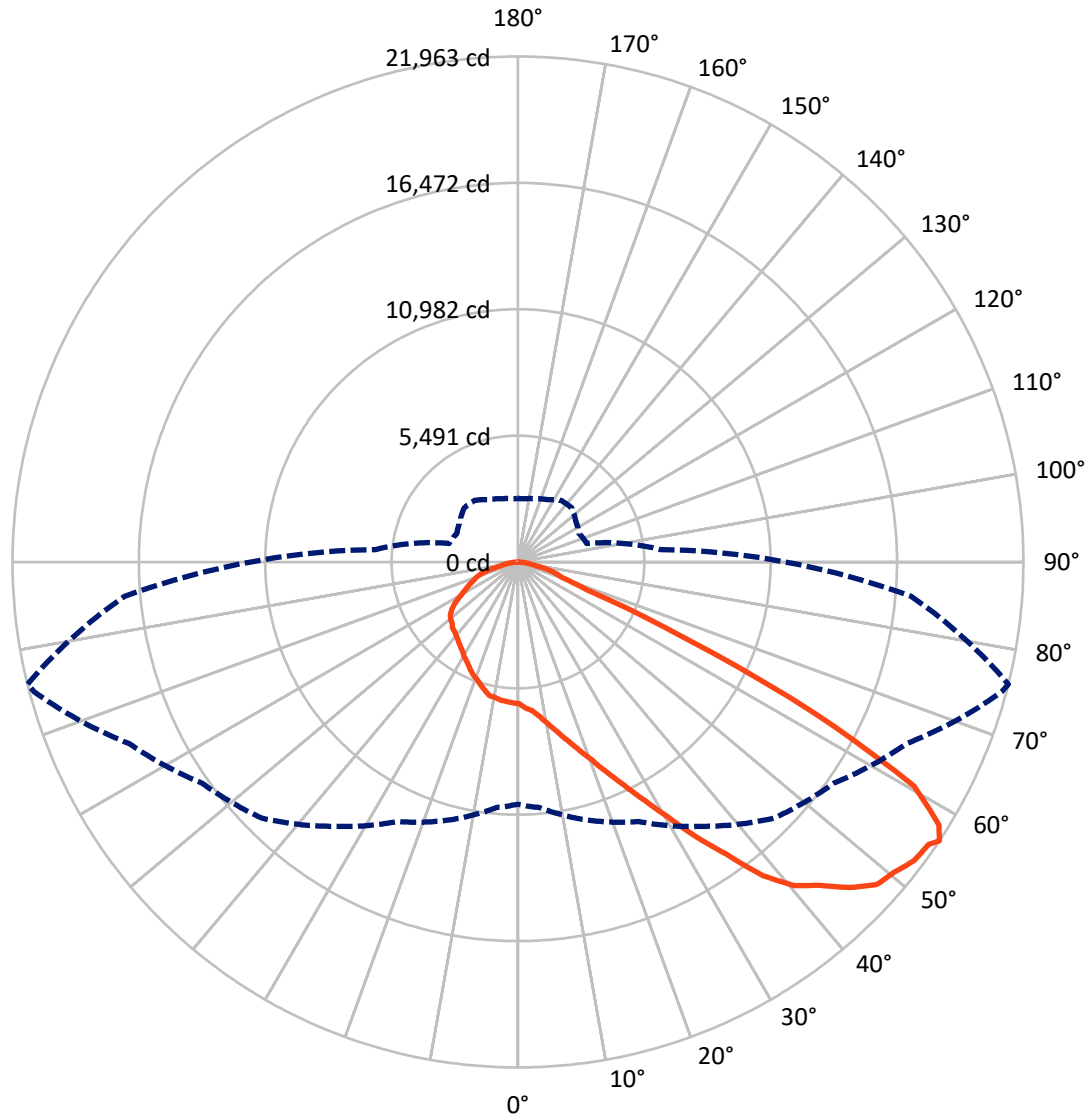
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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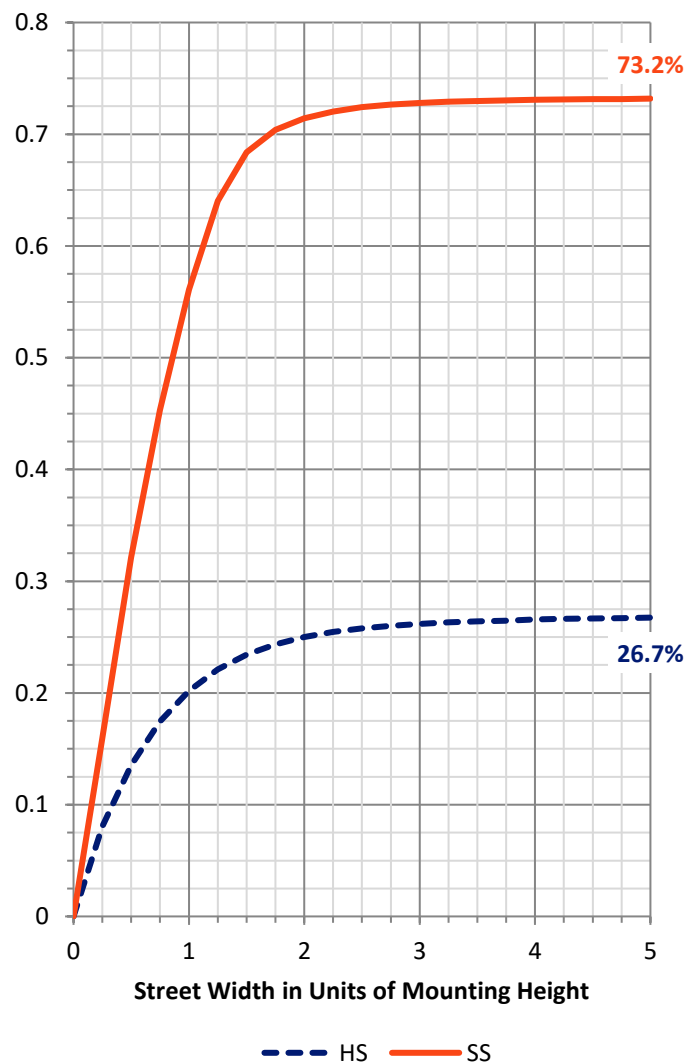
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8652.2	0.0	8652.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	23527.8	0.0	23527.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	32180.0	0.0	32180.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.6	1.9
10°-20°	1918.1	6.0
20°-30°	3354.6	10.4
30°-40°	5252.3	16.3
40°-50°	7640.5	23.7
50°-60°	8397.4	26.1
60°-70°	3748.3	11.6
70°-80°	1082.6	3.4
80°-90°	175.6	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°	32180.0	100.0
0°-180°	32180.0	100.0



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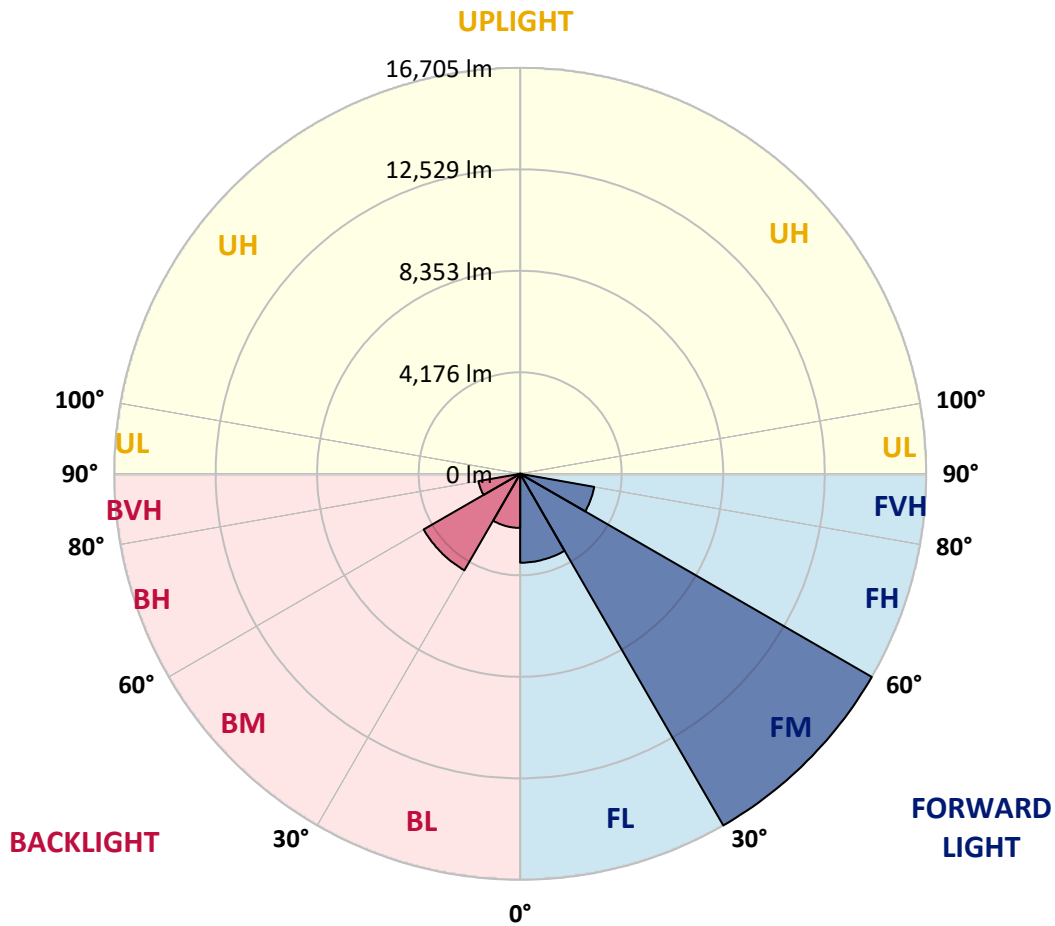
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3656.9	11.4			
FM (30°-60°)	16705.2	51.9			
FH (60°-80°)	3090.0	9.6			G2/5000
FVH (80°-90°)	75.6	0.2			G1/100
BL (0°-30°)	2226.4	6.9	B3/2500		
BM (30°-60°)	4585.0	14.2	B3/5000		
BH (60°-80°)	1740.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	100.0	0.3			G2/225
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°	76°	85°
0°	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2
2.5°	6783.0	6674.5	6666.2	6637.0	6653.6	6578.6	6499.3	6395.0	6286.5	6353.3	6194.8
5°	7258.5	7112.5	7170.9	7070.8	7083.3	6983.2	6820.5	6699.5	6566.0	6486.8	6374.2
7.5°	7425.4	7437.9	7479.6	7462.9	7379.5	7379.5	7271.0	7058.3	6824.7	6778.8	6591.1
10°	7650.7	7654.8	7608.9	7621.4	7738.3	7684.0	7588.1	7496.3	7195.9	7141.7	6808.0
12.5°	7729.9	7654.8	7729.9	7796.7	7934.3	8009.4	7988.5	7921.8	7600.6	7563.0	7075.0
15°	7742.4	7696.5	7759.1	7909.3	8030.3	8347.3	8505.8	8459.9	8034.4	8038.6	7375.3
17.5°	7684.0	7746.6	7771.6	7900.9	8180.4	8476.6	8935.5	8998.1	8647.7	8593.4	7754.9
20°	7763.3	7717.4	7750.8	7867.6	8238.8	8701.9	9302.6	9715.6	9223.3	9185.8	8147.1
22.5°	8067.8	8005.2	7996.9	8072.0	8339.0	8818.7	9690.5	10433.1	9924.2	9945.0	8635.1
25°	8305.6	8339.0	8309.8	8305.6	8472.4	8993.9	10203.6	11288.3	10875.3	10754.3	9210.8
27.5°	8714.4	8793.7	8735.3	8814.5	8777.0	9256.7	10570.7	12235.2	11901.5	11738.8	9732.3
30°	9281.7	9323.4	9269.2	9269.2	9156.6	9623.8	10904.5	13223.9	13086.2	12865.1	10345.5
32.5°	10028.4	10091.0	9982.6	9920.0	9903.3	10170.3	11505.2	14200.0	14433.6	14245.9	11158.9
35°	11017.1	10979.6	10850.2	10791.8	10566.6	11008.8	12397.9	15322.2	15935.4	15601.7	12143.4
37.5°	11889.0	11830.6	11822.2	11496.8	11551.1	11914.0	13157.1	16173.2	17391.3	17295.3	13182.1
40°	12702.4	12756.6	12844.2	12660.7	12577.3	12977.7	14041.5	16823.9	18521.7	18484.2	13983.1
42.5°	13574.3	13524.2	13678.6	13524.2	13399.1	13966.4	15000.9	17274.5	19514.6	19205.9	14821.6
45°	14838.3	14679.7	14734.0	14746.5	14654.7	14863.3	15397.2	17599.8	20211.2	20177.9	15434.8
47.5°	15893.7	15897.8	15806.1	15735.1	15455.6	15664.2	15839.4	17804.2	21012.2	20957.9	15672.6
50°	16285.8	16231.6	16498.5	16652.9	16669.6	16244.1	16185.7	17916.9	21433.5	21195.7	15910.3
52.5°	14875.8	14925.9	15347.2	16264.9	16794.7	16840.6	16590.3	18150.5	21604.5	21554.5	16102.2
55°	11972.4	12214.3	12906.8	13966.4	15222.0	16602.8	17028.3	18392.4	21696.3	21654.6	16953.2
56°	10524.9	10712.6	11613.6	12443.8	14020.6	15739.3	16753.0	18651.1	21767.2	21963.3	17153.5
57.5°	8472.4	8689.4	9336.0	10278.7	12139.3	14095.7	15993.8	18334.0	21491.9	21567.0	17299.5
60°	5297.9	5318.7	6094.7	6716.2	8026.1	9936.7	12206.0	15952.1	19890.0	19781.6	15539.1
62.5°	3474.9	3479.1	4184.1	4693.0	5289.5	5727.6	7183.4	10579.1	14675.6	14483.7	11063.0
65°	2440.4	2494.6	3041.1	3721.0	3963.0	3733.6	3687.7	5577.4	8197.1	7921.8	5944.5
67.5°	1785.4	1789.6	2273.5	3003.5	3353.9	2840.8	2306.9	2724.0	3245.5	3237.1	2753.2
70°	1180.6	1230.6	1601.9	2244.3	2644.8	2281.8	1885.5	1948.1	2064.9	2064.9	2048.2
72.5°	688.3	734.2	980.3	1422.5	1485.1	1426.7	1493.4	1668.6	1743.7	1739.5	1718.7
75°	392.1	413.0	467.2	592.4	738.4	871.9	1097.1	1264.0	1339.1	1385.0	1330.7
77.5°	229.4	242.0	275.3	337.9	383.8	471.4	596.5	713.3	813.5	800.9	809.3
80°	121.0	121.0	154.3	200.2	267.0	333.7	396.3	463.0	517.3	529.8	542.3
82.5°	70.9	75.1	100.1	146.0	191.9	237.8	304.5	350.4	400.5	404.6	413.0
85°	37.5	41.7	62.6	95.9	129.3	146.0	150.2	141.8	154.3	146.0	166.9
87.5°	12.5	12.5	20.9	16.7	16.7	20.9	25.0	25.0	33.4	33.4	33.4
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°	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2	6157.2
2.5°	6190.6	6190.6	6119.7	5986.2	5965.3	5911.1	5861.0	5856.9	5819.3	5786.0	5769.3
5°	6307.4	6178.1	6073.8	5952.8	5811.0	5744.2	5669.2	5585.7	5552.4	5585.7	5581.6
7.5°	6440.9	6332.4	6019.6	5794.3	5631.6	5564.9	5481.4	5393.8	5402.2	5402.2	5343.8
10°	6570.2	6424.2	5923.6	5635.8	5398.0	5347.9	5302.1	5335.4	5377.1	5385.5	5347.9
12.5°	6787.1	6457.6	5877.7	5477.3	5327.1	5218.6	5247.8	5339.6	5427.2	5402.2	5431.4
15°	6949.8	6486.8	5669.2	5314.6	5126.9	5176.9	5281.2	5343.8	5489.8	5473.1	5502.3
17.5°	7108.3	6503.5	5464.8	5097.7	5018.4	5156.1	5235.3	5414.7	5460.6	5560.7	5598.2
20°	7433.7	6536.8	5256.2	4964.2	4939.1	5097.7	5235.3	5318.7	5418.9	5506.5	5506.5
22.5°	7600.6	6520.2	5118.5	4789.0	4868.2	4968.3	5093.5	5235.3	5235.3	5318.7	5322.9
25°	7809.2	6453.4	4901.6	4705.5	4763.9	4859.9	5001.7	4951.6	5005.9	5005.9	5072.6
27.5°	8046.9	6311.6	4713.9	4555.3	4672.2	4776.4	4797.3	4763.9	4701.4	4693.0	4668.0
30°	8238.8	6136.4	4576.2	4505.3	4601.2	4659.6	4592.9	4522.0	4413.5	4405.2	4346.8
32.5°	8501.6	5919.5	4405.2	4380.1	4488.6	4492.8	4471.9	4363.5	4204.9	4138.2	4071.4
35°	8943.8	5794.3	4275.9	4313.4	4346.8	4334.3	4296.7	4179.9	4021.4	3992.2	3967.2
37.5°	9269.2	5702.5	4142.4	4188.3	4217.5	4234.1	4121.5	3992.2	3996.4	3938.0	3921.3
40°	9636.3	5644.1	4033.9	4054.8	4058.9	4113.2	3975.5	3912.9	3942.1	3904.6	3929.6
42.5°	10107.7	5660.8	3921.3	3904.6	3983.8	3963.0	3896.2	3812.8	3829.5	3716.9	3733.6
45°	10358.0	5773.4	3854.5	3779.4	3867.0	3862.9	3775.3	3696.0	3595.9	3379.0	3387.3
47.5°	10524.9	5802.6	3696.0	3645.9	3737.7	3792.0	3691.8	3508.3	3366.5	3212.1	3174.6
50°	10695.9	5856.9	3620.9	3516.6	3554.2	3683.5	3558.3	3383.1	3245.5	3107.8	3128.7
52.5°	10846.1	5961.2	3474.9	3320.6	3387.3	3529.1	3462.4	3249.6	3099.5	2986.8	2953.5
55°	11513.5	6194.8	3228.8	3028.6	3187.1	3366.5	3328.9	3070.3	2907.6	2849.2	2840.8
56°	11617.8	6203.1	3099.5	2928.4	3074.4	3312.2	3266.3	2991.0	2845.0	2753.2	2757.4
57.5°	11634.5	6103.0	2915.9	2836.7	2961.8	3233.0	3174.6	2928.4	2728.2	2644.8	2619.7
60°	10237.0	4763.9	2686.5	2636.4	2782.4	2991.0	2970.2	2757.4	2532.1	2436.2	2482.1
62.5°	6979.0	3491.6	2507.1	2498.8	2573.9	2778.3	2724.0	2532.1	2344.4	2281.8	2252.6
65°	4063.1	2648.9	2331.9	2298.5	2361.1	2469.6	2507.1	2306.9	2110.8	2069.1	2056.6
67.5°	2398.6	2190.1	2106.6	2052.4	2031.6	2098.3	2127.5	2010.7	1814.6	1756.2	1806.3
70°	2006.5	1948.1	1952.3	1860.5	1810.5	1764.6	1739.5	1635.3	1472.6	1397.5	1376.6
72.5°	1731.2	1706.2	1689.5	1606.1	1560.2	1455.9	1347.4	1243.1	1122.2	1059.6	1063.7
75°	1322.4	1314.0	1322.4	1280.7	1201.4	1118.0	1017.9	884.4	792.6	713.3	730.0
77.5°	788.4	813.5	826.0	809.3	775.9	700.8	638.2	550.6	463.0	400.5	392.1
80°	542.3	563.2	584.0	563.2	529.8	475.6	408.8	342.1	279.5	246.1	237.8
82.5°	413.0	433.8	446.4	425.5	383.8	325.4	279.5	233.6	183.5	150.2	141.8
85°	150.2	171.0	166.9	200.2	216.9	208.6	179.4	137.7	104.3	75.1	70.9
87.5°	41.7	37.5	41.7	41.7	41.7	37.5	33.4	33.4	33.4	20.9	16.7
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)