

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: P191378

Luminaire Tested: **GLEON-AF-10-LED-E1-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59144 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 558
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: 25 FT

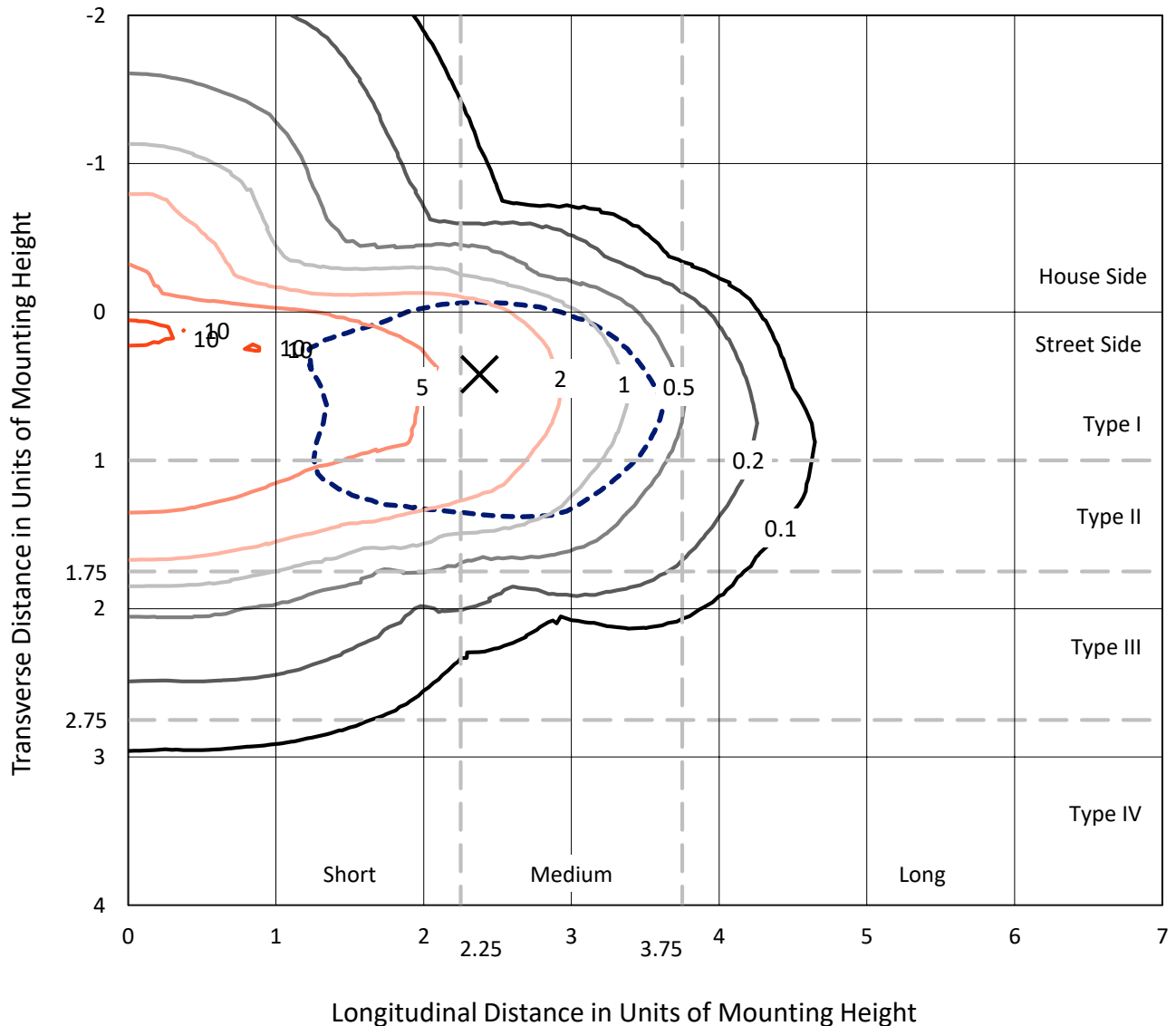


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

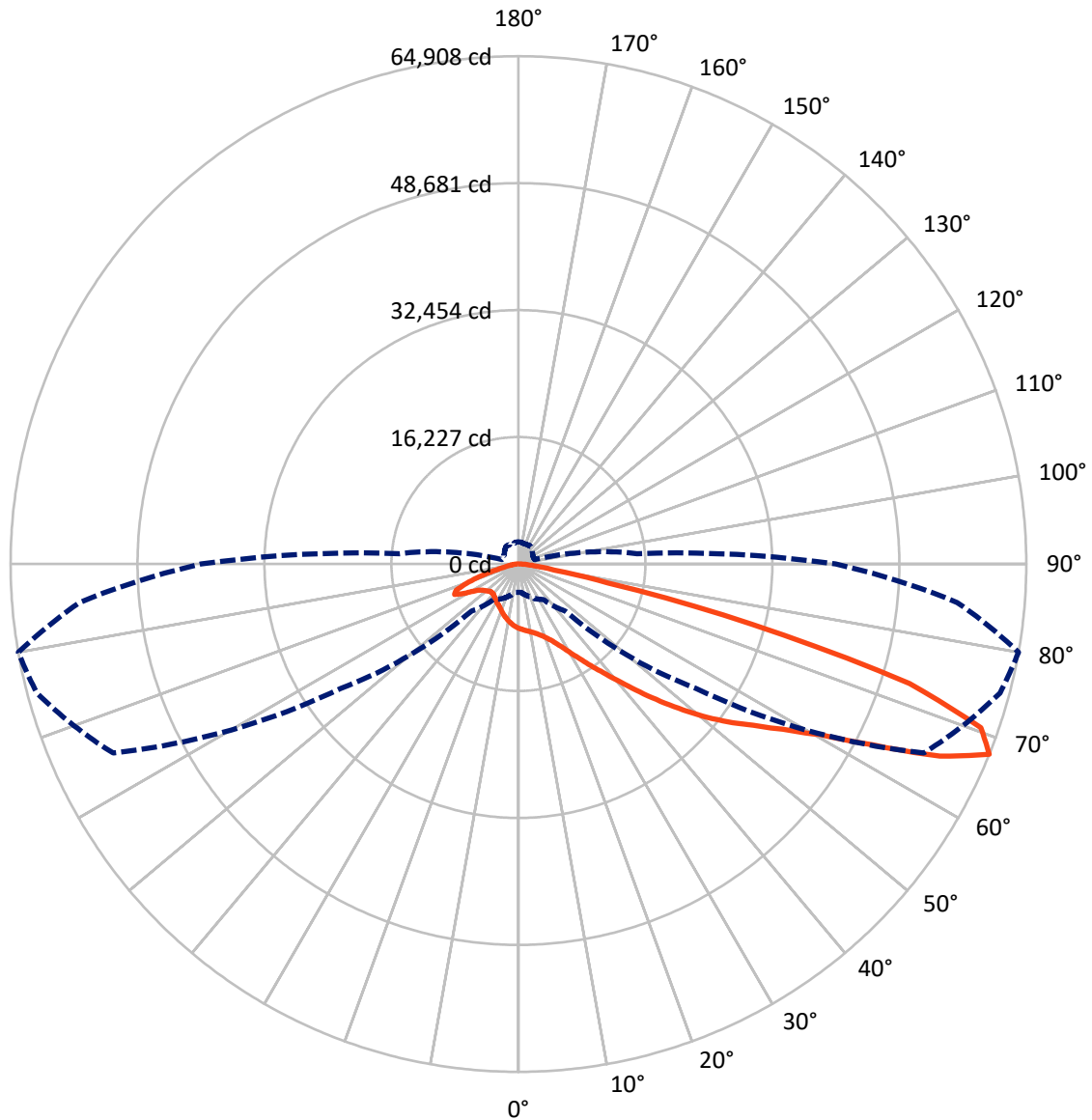


Based on 30 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10892.1	0.0	10892.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	48251.9	0.0	48251.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	59144.0	0.0	59144.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.0	1.3
10°-20°	2183.5	3.7
20°-30°	3614.1	6.1
30°-40°	5911.8	10.0
40°-50°	9545.2	16.1
50°-60°	13780.4	23.3
60°-70°	15207.5	25.7
70°-80°	7009.7	11.9
80°-90°	1133.8	1.9
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°	59144.0	100.0
0°-180°	59144.0	100.0



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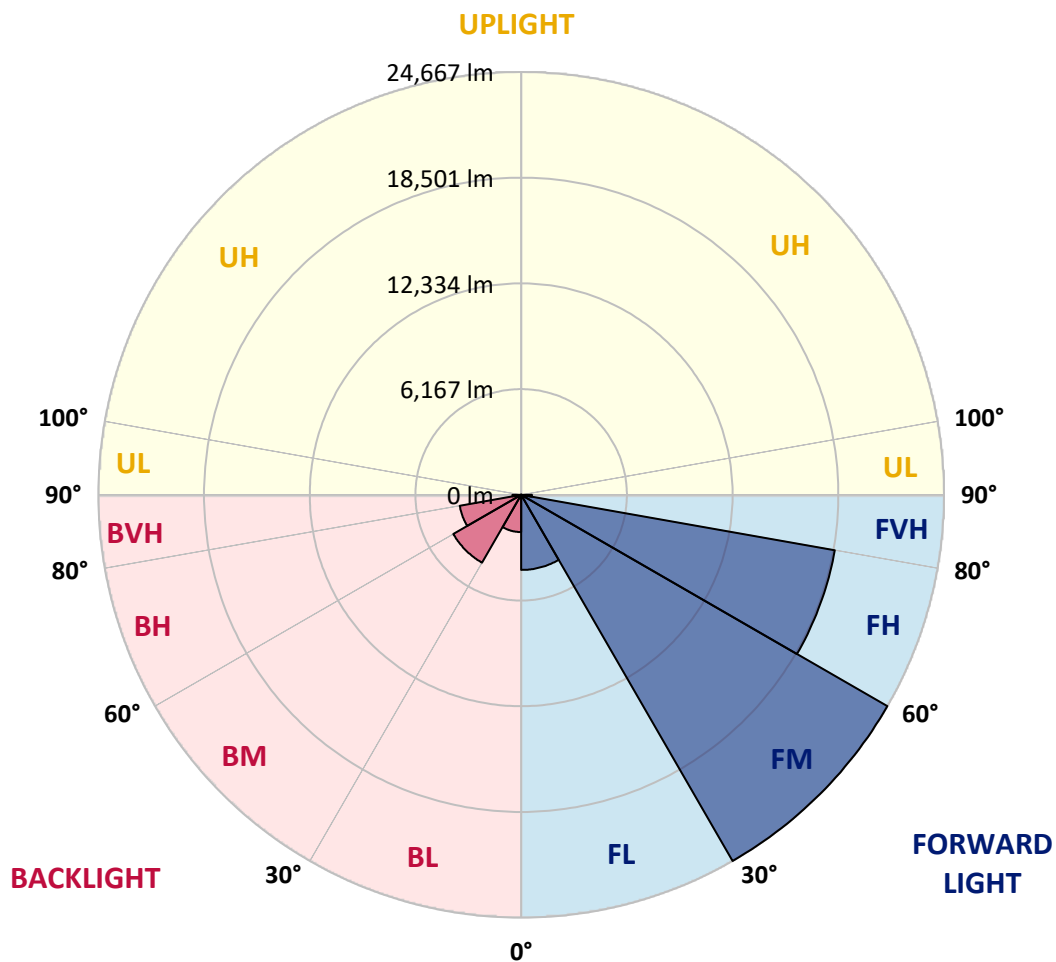
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4382.5	7.4			
FM	(30°-60°)	24667.4	41.7			
FH	(60°-80°)	18578.7	31.4			G5
FVH	(80°-90°)	623.3	1.1			G4/750
BL	(0°-30°)	2173.1	3.7	B3/2500		
BM	(30°-60°)	4569.9	7.7	B3/5000		
BH	(60°-80°)	3638.6	6.2	B4/5000		G4/5000
BVH	(80°-90°)	510.4	0.9			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	8216.9	8216.9	8216.9	8216.9	8216.9	8216.9	8216.9	8216.9	8216.9	8216.9	8216.9
2.5°	8988.5	8936.0	8944.8	8930.2	8886.5	8810.8	8729.2	8580.8	8426.5	8344.9	8280.9
5°	9739.6	9725.1	9704.7	9658.1	9547.5	9390.3	9195.1	8933.1	8650.7	8502.2	8359.5
7.5°	10301.6	10292.8	10266.6	10237.5	10129.8	9940.5	9646.4	9273.8	8863.3	8659.4	8438.1
10°	10348.2	10362.7	10383.2	10461.7	10476.2	10374.4	10074.4	9623.2	9084.5	8822.4	8540.0
12.5°	9952.2	9984.2	10062.9	10263.8	10476.2	10601.5	10447.2	9990.0	9343.6	9026.3	8668.2
15°	9428.1	9445.5	9541.7	9818.3	10199.6	10586.9	10732.5	10394.7	9678.4	9288.3	8860.3
17.5°	9203.9	9212.6	9279.6	9463.0	9818.3	10371.5	10892.7	10834.5	10089.1	9614.4	9096.2
20°	9090.4	9110.7	9206.8	9387.3	9611.5	10094.9	10916.0	11309.0	10578.2	10022.1	9393.1
22.5°	9413.5	9404.8	9439.7	9530.0	9719.3	10010.4	10898.5	11798.2	11201.3	10546.2	9780.4
25°	10167.6	10199.6	10138.6	10036.6	10097.8	10301.6	10991.7	12328.1	11981.6	11218.8	10287.0
27.5°	11242.0	11210.0	11119.8	10881.0	10755.8	10843.2	11300.3	12898.8	12951.3	12104.0	10956.7
30°	12313.6	12287.4	12200.0	11908.9	11652.6	11579.8	11900.1	13554.0	14107.2	13166.7	11777.8
32.5°	13425.8	13396.8	13315.2	13024.0	12715.4	12546.5	12753.2	14311.0	15469.9	14436.2	12744.5
35°	14797.3	14741.9	14570.1	14165.4	13862.6	13731.6	13827.6	15263.1	17042.2	15938.6	13918.0
37.5°	16087.1	16171.6	15996.9	15437.9	15044.7	14998.2	15105.9	16424.9	18736.8	17618.7	15266.0
40°	17382.8	17397.4	17240.2	16783.0	16378.3	16302.6	16573.4	17834.1	20737.2	19627.8	16905.3
42.5°	18722.3	18751.3	18486.4	18064.2	17767.2	17781.7	18090.4	19485.1	23031.5	21995.0	18792.1
45°	20309.1	20352.7	20061.6	19508.4	19237.6	19782.1	19654.0	21336.9	25547.3	24685.3	20958.4
47.5°	21968.8	22035.7	21814.4	21296.2	20958.4	21706.7	21217.5	23389.7	28255.1	27570.9	23337.3
50°	22874.3	22970.4	23185.9	23148.0	23075.2	22950.0	22961.7	25591.0	31047.5	30575.8	25783.1
52.5°	22388.1	22385.1	23171.3	24126.3	25145.5	25221.2	25087.2	27911.5	33656.3	33513.6	28086.2
55°	20163.5	20314.9	21505.8	23354.8	26138.3	27876.6	28272.6	30570.0	36218.6	36384.6	30424.3
57.5°	16459.8	16585.0	18192.3	20769.2	24799.0	29454.7	32803.2	34433.8	39083.8	39858.3	33536.9
60°	11163.5	11314.9	13018.2	16113.3	21194.2	28575.4	37115.4	41328.6	42513.7	44275.3	37904.5
62.5°	6560.1	6697.0	8085.8	10164.8	14922.5	24490.3	39008.1	51138.1	47961.5	50940.2	44566.5
65°	4516.0	4609.2	5284.8	6327.2	8575.0	16494.8	36661.2	57910.8	56344.3	59197.8	52291.2
67.5°	3633.8	3622.2	4157.9	4868.3	5520.6	8505.1	27722.3	57145.0	63716.7	64907.6	56300.7
70°	2993.3	2981.6	3345.6	3933.7	4411.3	4789.8	15100.1	48223.5	62214.2	62697.6	52608.6
72.5°	2504.1	2515.7	2748.7	3185.4	3619.2	3607.6	6635.8	33924.2	48942.8	52285.4	41937.2
75°	2113.9	2119.8	2274.0	2582.6	2937.9	2905.9	3598.8	18378.6	28450.2	30776.7	23247.0
77.5°	1799.5	1805.3	1904.2	2076.1	2329.4	2317.7	2626.3	7940.2	11868.1	11722.5	7951.8
80°	1604.4	1604.4	1650.9	1683.0	1822.7	1770.3	1947.9	3814.3	5016.9	4632.5	3173.7
82.5°	1257.8	1263.7	1549.1	1537.4	1435.5	1368.5	1368.5	2247.8	2658.3	2457.4	1857.7
85°	707.6	704.6	998.7	1205.4	1263.7	963.7	955.0	1257.8	1447.1	1275.3	899.7
87.5°	302.8	308.6	463.0	535.7	716.3	599.9	591.1	649.3	736.6	637.7	416.3
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°	8216.9	8216.9	8216.9	8216.9	8216.9	8216.9	8216.9	8216.9	8216.9	8216.9	8216.9
2.5°	8219.7	8144.0	7978.1	7771.4	7585.0	7462.7	7352.0	7191.9	7200.7	7090.0	7008.4
5°	8213.9	8056.7	7672.3	7215.2	6775.5	6458.2	6219.4	6003.9	5951.5	5849.6	5788.5
7.5°	8219.7	7963.5	7317.1	6586.3	6041.8	5639.9	5436.2	5322.6	5296.4	5261.4	5264.3
10°	8240.1	7879.1	6926.9	5998.1	5427.4	5162.4	5112.9	5147.9	5188.6	5200.3	5203.2
12.5°	8286.7	7803.4	6498.9	5474.0	5043.0	4961.5	5046.0	5165.4	5244.0	5281.8	5278.9
15°	8391.5	7745.2	6088.4	5063.4	4830.5	4874.2	5031.4	5200.3	5313.8	5366.3	5369.2
17.5°	8505.1	7660.7	5666.1	4748.9	4673.2	4783.9	4979.0	5177.1	5316.8	5375.0	5386.7
20°	8653.6	7555.8	5223.6	4513.2	4524.8	4650.0	4833.4	5031.4	5185.7	5235.3	5258.5
22.5°	8848.6	7442.3	4836.3	4320.9	4355.9	4452.0	4594.7	4766.4	4900.3	4923.7	4944.0
25°	9110.7	7320.0	4527.7	4146.2	4160.9	4216.1	4312.2	4414.1	4507.3	4481.1	4501.5
27.5°	9463.0	7215.2	4297.6	3986.1	3959.9	3971.6	4021.0	4053.1	4102.5	4029.8	4038.5
30°	9876.5	7101.6	4120.0	3846.4	3773.6	3753.2	3764.9	3782.3	3820.1	3721.2	3706.6
32.5°	10356.9	6964.8	3954.1	3724.1	3622.2	3581.4	3587.2	3633.8	3779.4	3718.2	3686.2
35°	10916.0	6810.5	3779.4	3590.1	3520.3	3462.0	3456.1	3601.8	4035.6	3997.8	3968.6
37.5°	11571.1	6656.1	3604.7	3438.8	3444.6	3380.4	3360.1	3526.1	4085.2	3936.6	3916.3
40°	12403.8	6574.6	3456.1	3278.6	3351.4	3342.6	3301.9	3386.3	3759.0	3488.3	3453.3
42.5°	13434.6	6586.3	3345.6	3106.8	3240.7	3333.9	3269.9	3272.7	3406.7	3202.9	3170.8
45°	14707.0	6723.1	3266.9	2969.9	3115.5	3325.2	3258.2	3211.6	3223.2	3115.5	3098.0
47.5°	16192.0	7005.6	3211.6	2856.4	2996.1	3293.1	3255.2	3194.2	3168.0	3109.7	3095.1
50°	17842.9	7416.1	3170.8	2748.7	2888.4	3240.7	3258.2	3176.7	3147.5	3124.3	3115.5
52.5°	19464.7	7884.9	3109.7	2655.5	2804.0	3176.7	3266.9	3159.2	3127.2	3109.7	3101.0
55°	21272.9	8470.1	3016.5	2576.8	2734.0	3095.1	3266.9	3133.0	3098.0	3101.0	3098.0
57.5°	23715.8	9416.5	2905.9	2509.9	2649.6	2996.1	3211.6	3103.8	3060.2	3063.1	3066.0
60°	27533.0	11084.8	2771.9	2442.9	2544.8	2879.7	3135.9	3039.8	2996.1	3007.8	3010.6
62.5°	33146.8	13533.5	2597.3	2343.9	2434.2	2754.5	3031.1	2958.3	2914.6	2943.7	2943.7
65°	38981.8	15694.0	2381.7	2218.7	2317.7	2617.6	2900.1	2856.4	2812.7	2879.7	2876.7
67.5°	40551.2	15210.7	2166.3	2081.9	2201.3	2466.2	2742.8	2719.5	2696.2	2812.7	2806.9
70°	36023.5	12211.7	1968.3	1942.1	2073.1	2303.2	2573.9	2573.9	2559.4	2646.8	2626.3
72.5°	27445.7	8659.4	1779.0	1793.6	1927.5	2125.6	2390.5	2410.9	2387.6	2431.2	2413.8
75°	14692.4	4955.7	1589.8	1630.6	1747.0	1945.0	2186.7	2207.1	2192.5	2189.6	2198.3
77.5°	4883.0	2422.6	1391.8	1455.9	1557.7	1758.7	1974.1	2006.2	1971.2	1965.4	1962.5
80°	2175.0	1522.9	1173.4	1257.8	1348.1	1546.1	1750.0	1776.1	1738.3	1790.7	1723.8
82.5°	1397.7	1001.7	940.5	1033.7	1121.1	1333.5	1525.7	1531.6	1496.6	1738.3	1482.1
85°	678.4	620.2	707.6	792.0	867.7	1048.2	1263.7	1266.6	1179.3	1074.4	1036.6
87.5°	337.8	361.1	471.7	547.4	585.2	719.2	920.1	902.7	864.8	786.1	725.0
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)