

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: P193128

Luminaire Tested: **GLEON-AF-10-LED-E1-T2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193128
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-T2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61341.4 lumens
Efficiency: N/A
Efficacy: 95.8 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): 640
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

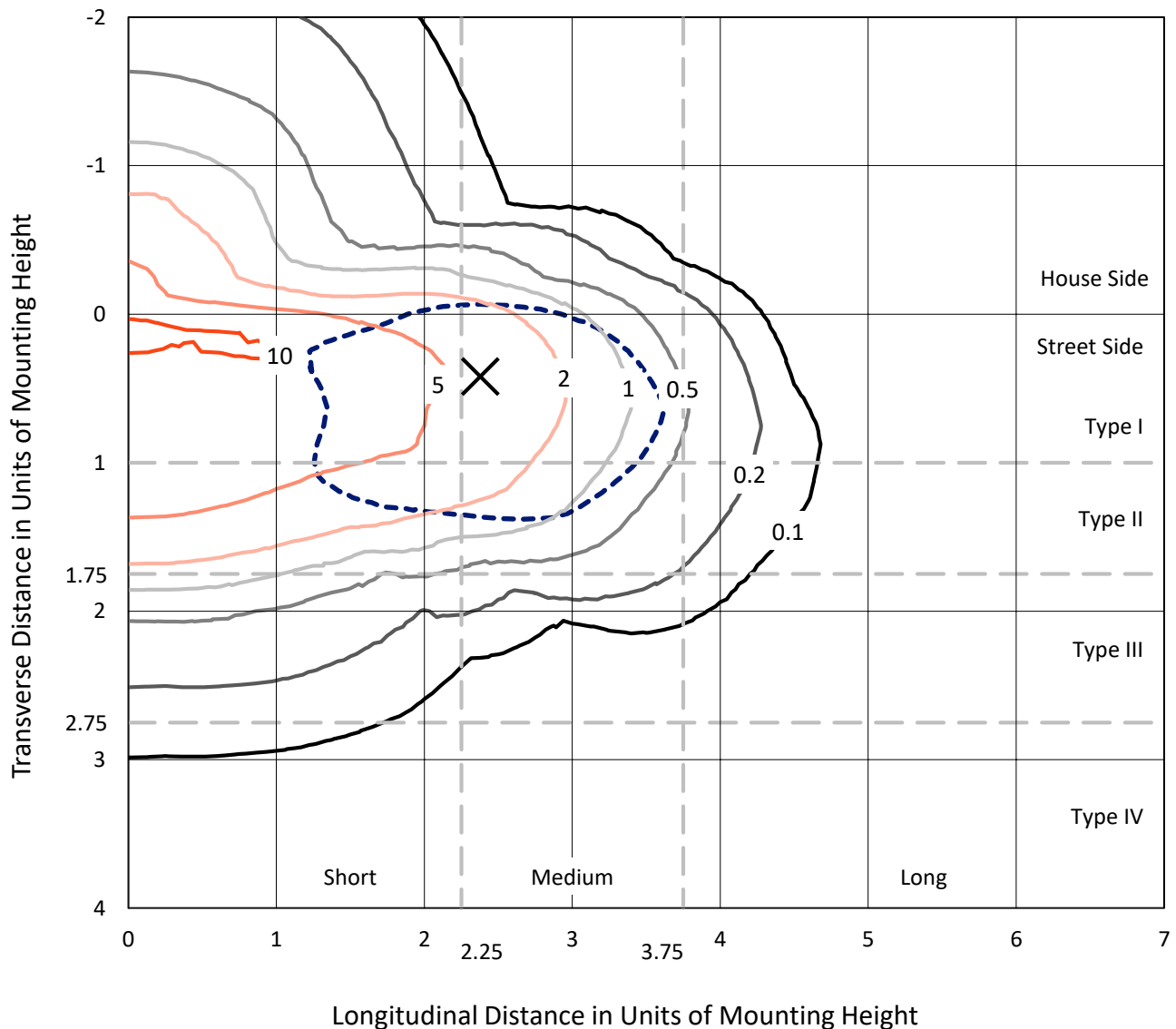


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

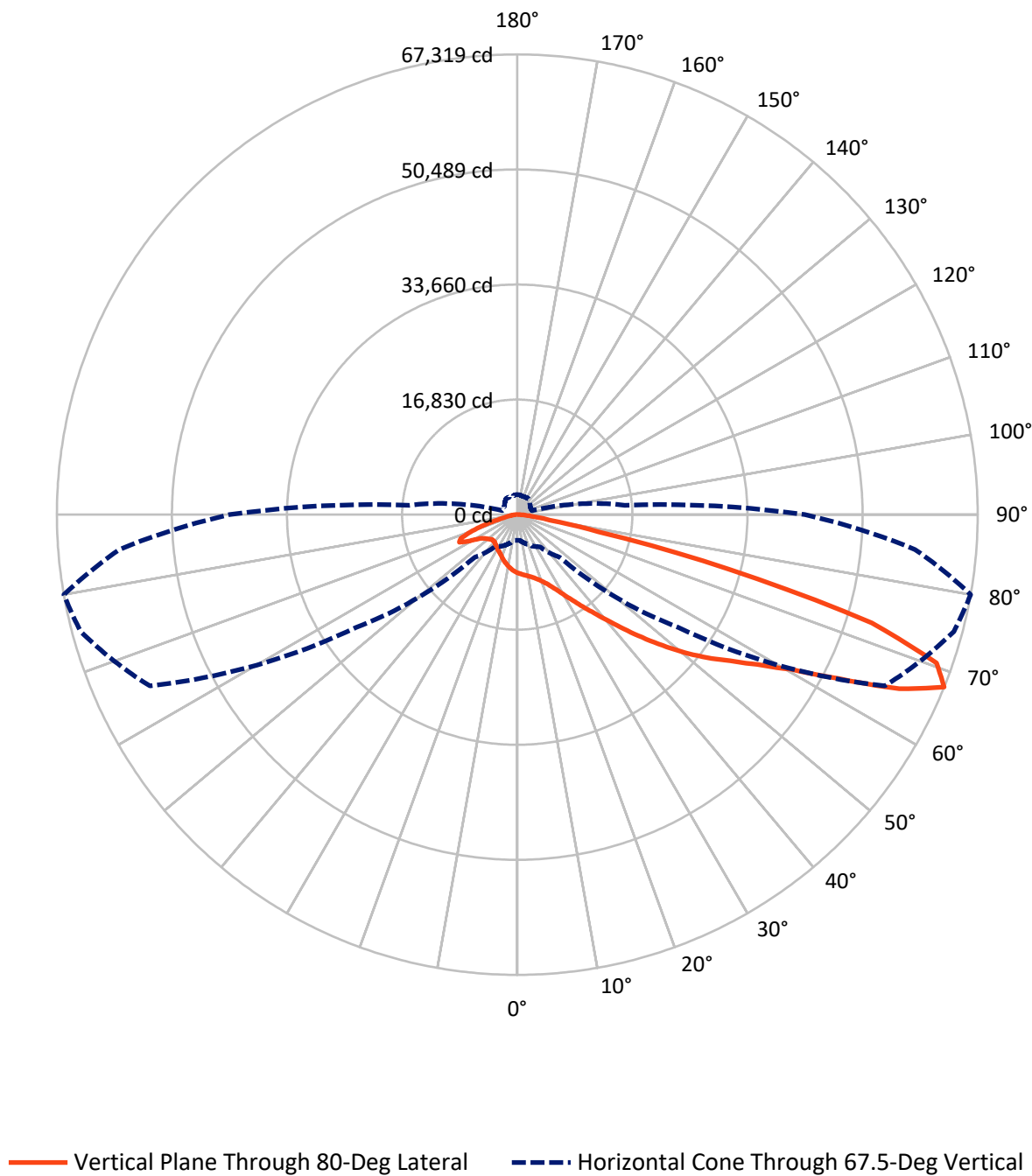


Based on 30 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11296.8	0.0	11296.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	50044.7	0.0	50044.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	61341.4	0.0	61341.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.1	1.3
10°-20°	2264.6	3.7
20°-30°	3748.4	6.1
30°-40°	6131.4	10.0
40°-50°	9899.8	16.1
50°-60°	14292.4	23.3
60°-70°	15772.6	25.7
70°-80°	7270.2	11.9
80°-90°	1175.9	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°	61341.4	100.0
0°-180°	61341.4	100.0

Coefficient of Utilization



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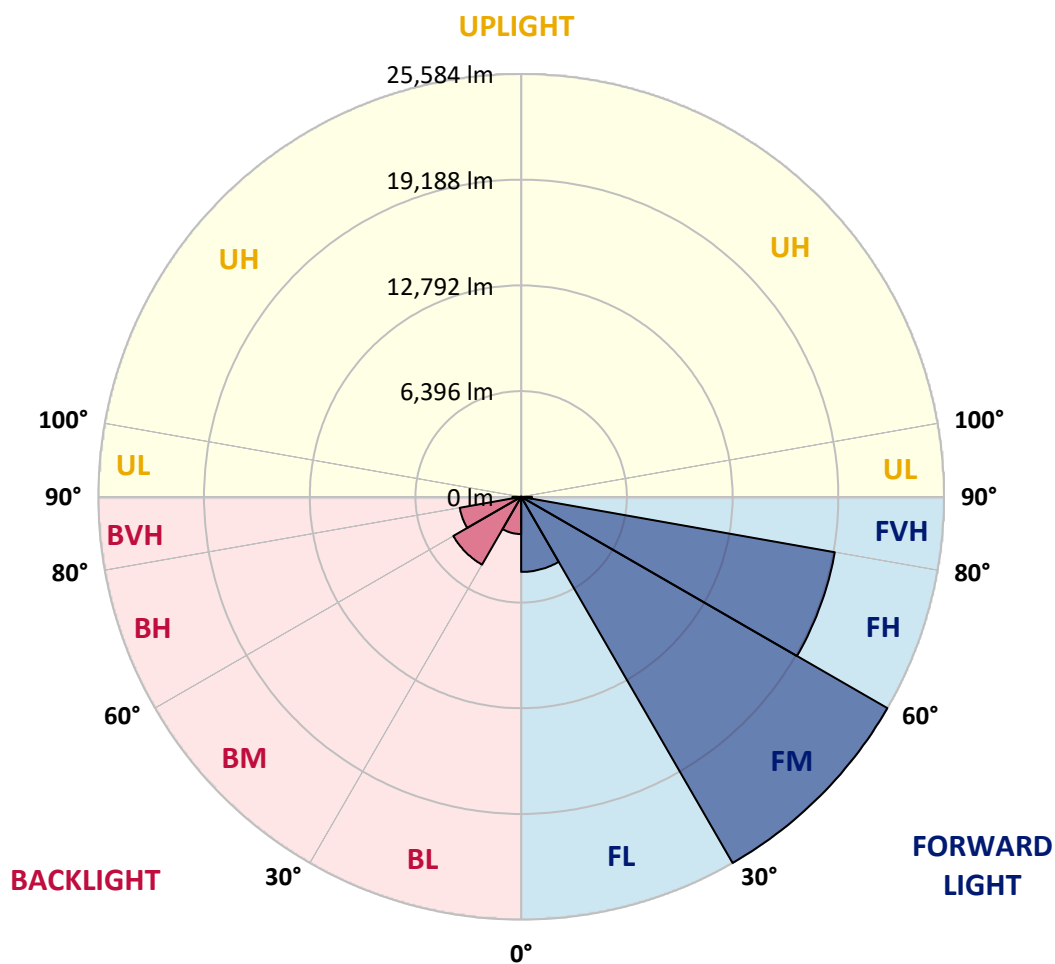
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4545.3	7.4			
FM	(30°-60°)	25583.9	41.7			
FH	(60°-80°)	19268.9	31.4			G5
FVH	(80°-90°)	646.5	1.1			G4/750
BL	(0°-30°)	2253.9	3.7	B3/2500		
BM	(30°-60°)	4739.7	7.7	B3/5000		
BH	(60°-80°)	3773.8	6.2	B4/5000		G4/5000
BVH	(80°-90°)	529.4	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°	8522.1	8522.1	8522.1	8522.1	8522.1	8522.1	8522.1	8522.1	8522.1	8522.1	8522.1
2.5°	9322.3	9268.0	9277.1	9262.0	9216.7	9138.1	9053.7	8899.6	8739.5	8655.0	8588.6
5°	10101.4	10086.4	10065.3	10017.0	9902.1	9739.2	9536.8	9264.9	8972.1	8818.1	8670.0
7.5°	10684.4	10675.2	10648.1	10618.0	10506.2	10309.9	10004.9	9618.3	9192.5	8981.1	8751.6
10°	10732.6	10747.8	10768.9	10850.4	10865.5	10759.9	10448.8	9980.8	9422.1	9150.3	8857.3
12.5°	10321.9	10355.1	10436.7	10645.1	10865.5	10995.5	10835.4	10361.2	9690.8	9361.7	8990.2
15°	9778.3	9796.5	9896.1	10183.1	10578.7	10980.3	11131.4	10780.9	10038.0	9633.4	9189.5
17.5°	9545.9	9554.9	9624.3	9814.6	10183.1	10756.8	11297.4	11237.0	10463.9	9971.6	9434.1
20°	9428.1	9449.2	9548.8	9736.1	9968.6	10469.9	11321.6	11729.2	10971.3	10394.5	9742.1
22.5°	9763.3	9754.2	9790.5	9884.0	10080.4	10382.4	11303.4	12236.6	11617.5	10938.1	10143.7
25°	10545.3	10578.7	10515.2	10409.5	10472.9	10684.4	11400.0	12786.2	12426.8	11635.6	10669.2
27.5°	11659.8	11626.5	11533.0	11285.3	11155.5	11246.0	11720.1	13378.0	13432.5	12553.7	11363.8
30°	12771.1	12743.9	12653.4	12351.3	12085.6	12010.1	12342.3	14057.6	14631.4	13655.9	12215.4
32.5°	13924.6	13894.5	13810.0	13507.9	13187.8	13012.7	13227.0	14842.8	16044.6	14972.6	13218.0
35°	15347.0	15289.6	15111.5	14691.8	14377.7	14241.7	14341.4	15830.2	17675.4	16530.8	14435.0
37.5°	16684.9	16772.4	16591.2	16011.4	15603.8	15555.5	15667.1	17035.1	19433.0	18273.3	15833.2
40°	18028.7	18043.8	17880.8	17406.6	16986.9	16908.3	17189.2	18496.8	21507.5	20357.0	17533.5
42.5°	19417.9	19448.0	19173.3	18735.3	18427.3	18442.4	18762.5	20209.0	23887.3	22812.2	19490.3
45°	21063.6	21109.0	20807.0	20233.1	19952.4	20517.0	20384.2	22129.7	26496.5	25602.6	21737.1
47.5°	22785.0	22854.6	22625.0	22087.5	21737.1	22513.2	22005.9	24258.8	29305.0	28595.3	24204.3
50°	23724.2	23823.9	24047.3	24008.1	23932.5	23802.6	23814.8	26541.7	32201.0	31711.7	26741.1
52.5°	23219.9	23216.8	24032.2	25022.8	26079.7	26158.2	26019.3	28948.6	34906.8	34758.8	29129.8
55°	20912.7	21069.8	22304.8	24222.4	27109.5	28912.4	29323.1	31705.7	37564.3	37736.4	31554.7
57.5°	17071.4	17201.2	18868.2	21540.8	25720.2	30549.1	34022.0	35713.1	40535.8	41339.3	34783.0
60°	11578.2	11735.2	13501.9	16712.1	21981.8	29637.1	38494.4	42864.3	44093.3	45920.3	39312.8
62.5°	6803.8	6945.7	8386.2	10542.4	15476.9	25400.3	40457.4	53038.2	49743.5	52832.9	46222.3
65°	4683.8	4780.4	5481.1	6562.2	8893.6	17107.6	38023.4	60062.4	58437.8	61397.2	54234.1
67.5°	3768.8	3756.8	4312.4	5049.2	5725.7	8821.0	28752.3	59268.2	66084.1	67319.2	58392.4
70°	3104.5	3092.4	3469.8	4079.8	4575.1	4967.7	15661.1	50015.3	64525.8	65027.2	54563.2
72.5°	2597.1	2609.2	2850.8	3303.8	3753.7	3741.6	6882.4	35184.6	50761.2	54228.0	43495.3
75°	2192.4	2198.6	2358.6	2678.6	3047.0	3013.8	3732.7	19061.5	29507.3	31920.2	24110.8
77.5°	1866.2	1872.3	1975.0	2153.2	2415.9	2403.8	2724.0	8235.2	12309.0	12158.1	8247.3
80°	1663.9	1663.9	1712.3	1745.5	1890.4	1836.1	2020.3	3956.1	5203.3	4804.6	3291.7
82.5°	1304.5	1310.7	1606.5	1594.5	1488.7	1419.4	1419.4	2331.4	2757.1	2548.8	1926.7
85°	733.7	730.8	1035.8	1250.3	1310.7	999.6	990.6	1304.5	1500.9	1322.7	933.2
87.5°	314.1	320.1	480.2	555.7	742.9	622.1	613.1	673.5	764.0	661.3	431.8
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°	8522.1	8522.1	8522.1	8522.1	8522.1	8522.1	8522.1	8522.1	8522.1	8522.1	8522.1
2.5°	8525.2	8446.7	8274.5	8060.0	7866.7	7739.9	7625.2	7459.1	7468.2	7353.3	7268.9
5°	8519.1	8356.0	7957.4	7483.2	7027.2	6698.1	6450.4	6227.0	6172.6	6066.9	6003.6
7.5°	8525.2	8259.4	7588.9	6831.0	6266.2	5849.5	5638.1	5520.4	5493.1	5457.0	5459.9
10°	8546.3	8171.8	7184.4	6221.0	5629.0	5354.2	5302.9	5339.2	5381.4	5393.5	5396.6
12.5°	8594.6	8093.3	6740.4	5677.3	5230.5	5145.9	5233.4	5357.3	5438.8	5478.0	5475.1
15°	8703.3	8032.8	6314.5	5251.5	5010.0	5055.3	5218.3	5393.5	5511.2	5565.6	5568.6
17.5°	8821.0	7945.4	5876.7	4925.4	4847.0	4961.7	5164.0	5369.3	5514.4	5574.7	5586.8
20°	8975.1	7836.6	5417.6	4680.7	4692.9	4822.7	5013.1	5218.3	5378.4	5429.7	5453.9
22.5°	9177.4	7718.8	5016.0	4481.5	4517.8	4617.4	4765.4	4943.6	5082.4	5106.7	5127.7
25°	9449.2	7592.0	4696.0	4300.3	4315.4	4372.8	4472.4	4578.2	4674.7	4647.6	4668.7
27.5°	9814.6	7483.2	4457.3	4134.3	4107.0	4119.1	4170.4	4203.6	4255.0	4179.5	4188.6
30°	10243.5	7365.5	4273.1	3989.3	3913.7	3892.6	3904.7	3922.9	3962.1	3859.4	3844.3
32.5°	10741.8	7223.5	4101.0	3862.5	3756.8	3714.5	3720.5	3768.8	3919.7	3856.5	3823.2
35°	11321.6	7063.5	3919.7	3723.5	3651.0	3590.6	3584.6	3735.6	4185.5	4146.3	4116.2
37.5°	12001.0	6903.4	3738.7	3566.4	3572.6	3506.1	3485.0	3657.1	4236.8	4082.9	4061.7
40°	12864.7	6818.9	3584.6	3400.3	3475.9	3466.8	3424.5	3512.1	3898.7	3617.8	3581.6
42.5°	13933.8	6831.0	3469.8	3222.2	3361.2	3457.7	3391.3	3394.3	3533.2	3321.9	3288.7
45°	15253.4	6972.9	3388.3	3080.2	3231.3	3448.7	3379.3	3330.9	3343.0	3231.3	3213.2
47.5°	16793.5	7265.8	3330.9	2962.4	3107.5	3415.5	3376.2	3312.8	3285.7	3225.3	3210.1
50°	18505.8	7691.7	3288.7	2850.8	2995.7	3361.2	3379.3	3294.7	3264.4	3240.3	3231.3
52.5°	20188.0	8177.8	3225.3	2754.1	2908.2	3294.7	3388.3	3276.5	3243.4	3225.3	3216.1
55°	22063.3	8784.9	3128.6	2672.6	2835.8	3210.1	3388.3	3249.4	3213.2	3216.1	3213.2
57.5°	24597.0	9766.2	3013.8	2603.1	2748.1	3107.5	3330.9	3219.3	3173.9	3176.9	3180.0
60°	28556.0	11496.7	2874.9	2533.7	2639.3	2986.7	3252.4	3152.7	3107.5	3119.6	3122.5
62.5°	34378.3	14036.4	2693.8	2431.0	2524.7	2856.8	3143.7	3068.2	3022.8	3053.1	3053.1
65°	40430.2	16277.1	2470.3	2301.1	2403.8	2714.9	3007.8	2962.4	2917.2	2986.7	2983.7
67.5°	42057.9	15775.8	2246.8	2159.2	2283.1	2557.9	2844.8	2820.5	2796.4	2917.2	2911.2
70°	37362.0	12665.4	2041.4	2014.3	2150.1	2388.7	2669.5	2669.5	2654.5	2745.0	2724.0
72.5°	28465.5	8981.1	1845.2	1860.2	1999.1	2204.6	2479.3	2500.5	2476.3	2521.6	2503.4
75°	15238.3	5139.9	1648.8	1691.2	1811.9	2017.3	2267.9	2289.1	2274.0	2271.0	2280.0
77.5°	5064.3	2512.5	1443.6	1510.0	1615.6	1824.0	2047.5	2080.8	2044.5	2038.4	2035.4
80°	2255.8	1579.5	1217.0	1304.5	1398.2	1603.6	1814.9	1842.1	1802.9	1857.2	1787.8
82.5°	1449.6	1038.8	975.4	1072.1	1162.6	1383.1	1582.4	1588.4	1552.2	1802.9	1537.2
85°	703.6	643.2	733.7	821.4	900.0	1087.1	1310.7	1313.7	1223.0	1114.3	1075.1
87.5°	350.2	374.4	489.3	567.7	607.1	745.9	954.3	936.2	896.9	815.4	751.9
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)