

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: P194848

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66081 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - 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



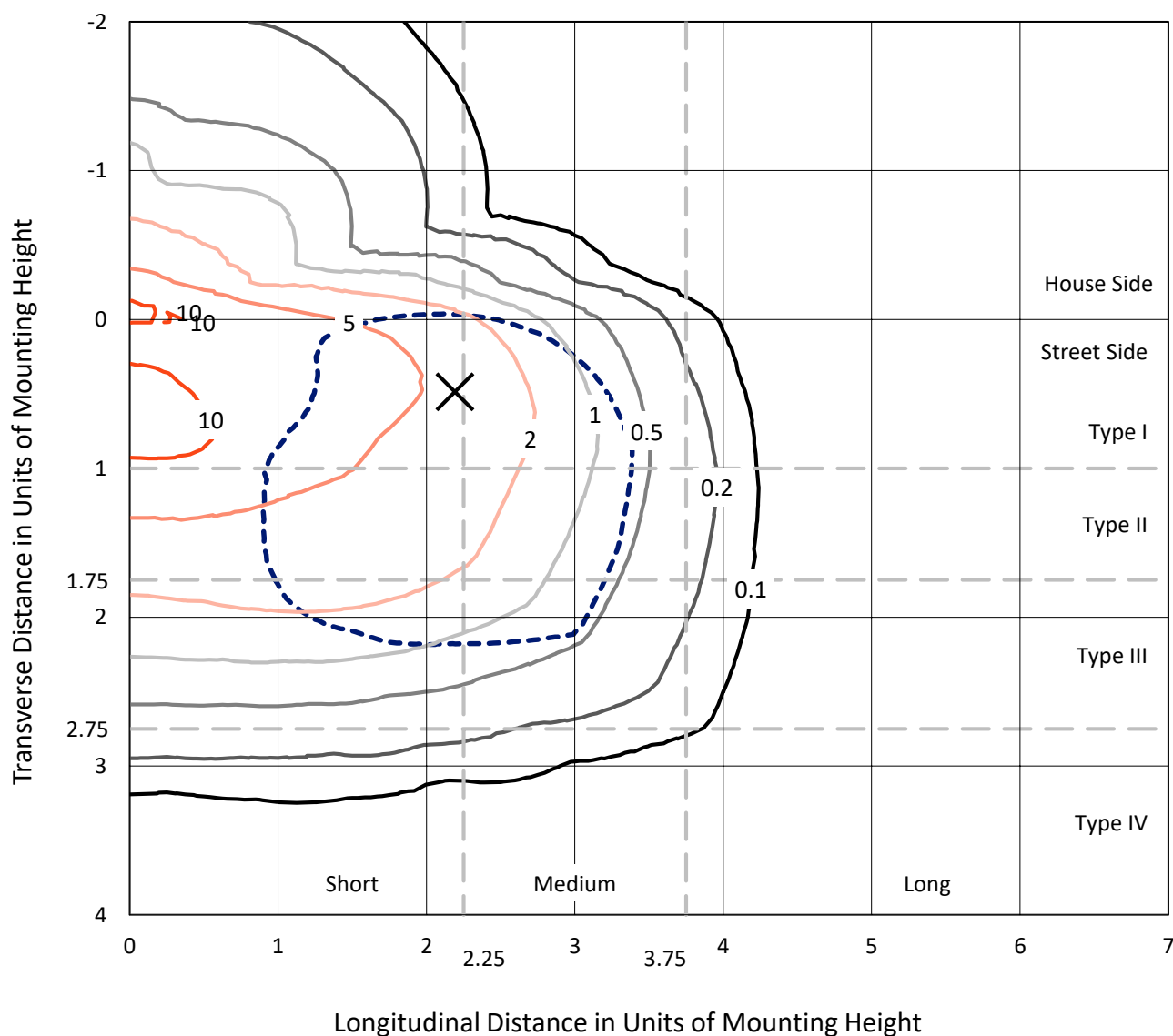
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

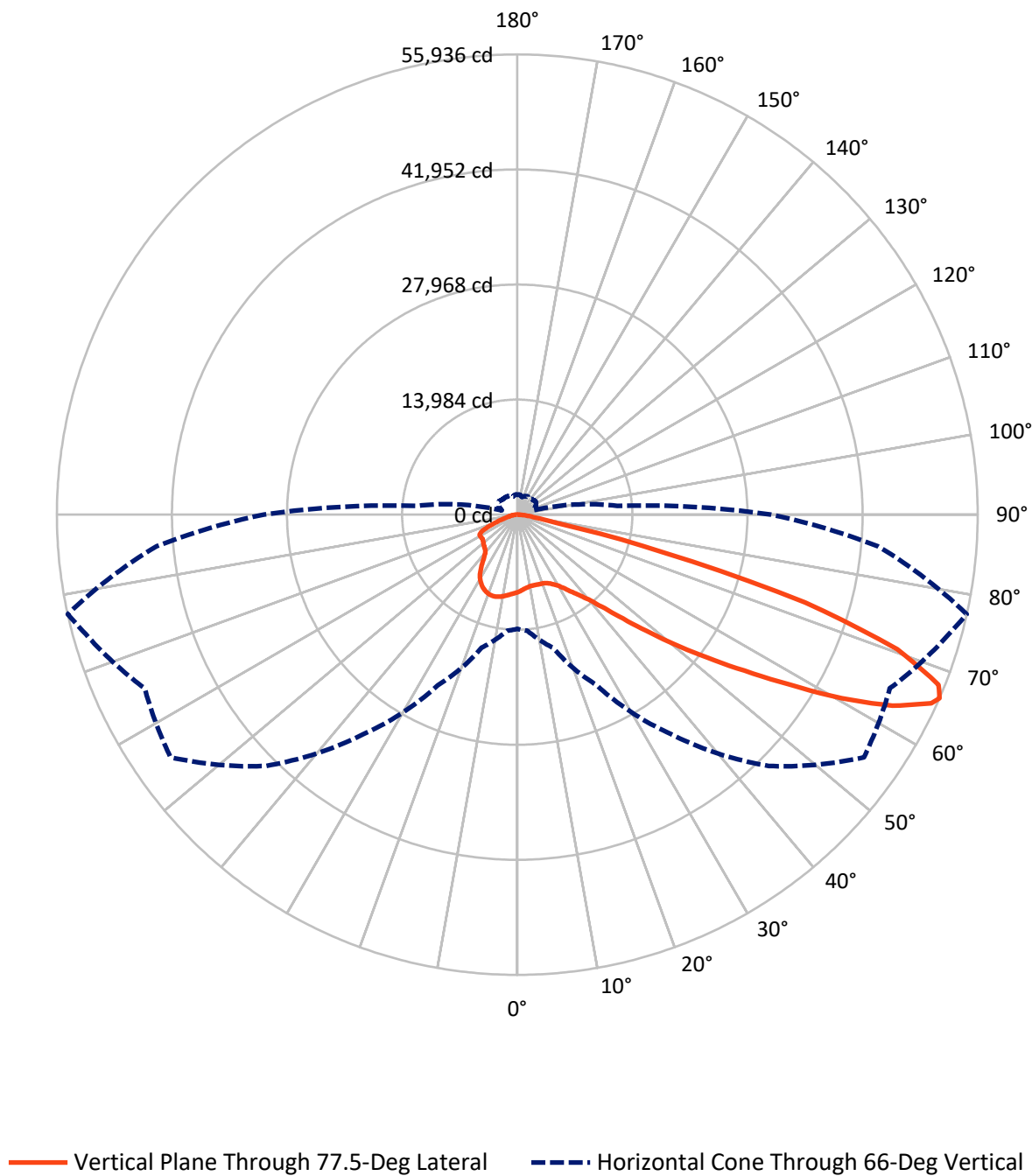


Based on 30 foot mounting height. Maximum calculated value = 12.9 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11289.5	0.0	11289.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	54791.5	0.0	54791.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	66081.0	0.0	66081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.3	1.3
10°-20°	2373.5	3.6
20°-30°	4050.7	6.1
30°-40°	6484.5	9.8
40°-50°	10018.0	15.2
50°-60°	14208.9	21.5
60°-70°	19007.7	28.8
70°-80°	8254.7	12.5
80°-90°	841.7	1.3
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°	66081.0	100.0
0°-180°	66081.0	100.0

Coefficient of Utilization



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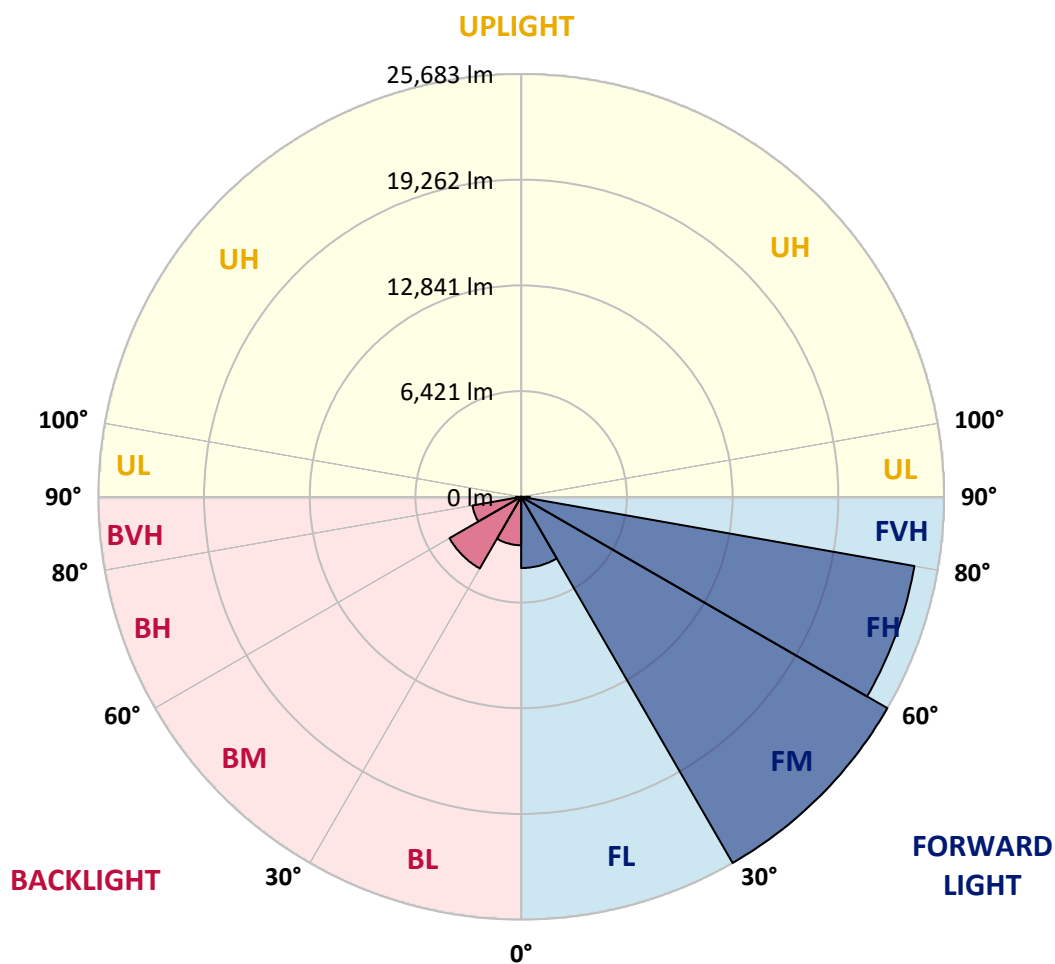
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4325.3	6.5			
FM	(30°-60°)	25682.5	38.9			
FH	(60°-80°)	24255.7	36.7			G5
FVH	(80°-90°)	527.9	0.8			G4/750
BL	(0°-30°)	2940.3	4.4	B4/5000		
BM	(30°-60°)	5028.8	7.6	B4/8500		
BH	(60°-80°)	3006.6	4.5	B4/5000		G4/5000
BVH	(80°-90°)	313.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	9416.9	9416.9	9416.9	9416.9	9416.9	9416.9	9416.9	9416.9	9416.9	9416.9	9416.9
2.5°	8330.3	8386.5	8433.3	8477.0	8564.5	8708.1	8873.6	9007.8	9201.4	9238.9	9341.9
5°	7565.3	7565.3	7602.8	7668.4	7787.0	8002.5	8227.3	8527.0	8948.5	9048.4	9323.2
7.5°	7193.8	7196.9	7218.8	7275.0	7378.0	7574.7	7821.4	8174.2	8745.6	8911.0	9379.4
10°	7331.2	7299.9	7253.1	7225.0	7240.6	7356.1	7590.3	7983.7	8620.7	8833.0	9504.3
12.5°	8099.2	8039.9	7877.6	7662.1	7456.1	7371.8	7509.1	7893.2	8567.6	8814.3	9669.8
15°	9354.4	9329.4	9026.6	8580.1	8080.5	7662.1	7568.5	7858.8	8573.8	8836.1	9866.5
17.5°	10928.0	10893.7	10494.1	9844.6	9029.7	8214.8	7777.6	7886.9	8595.7	8873.6	10056.9
20°	12517.3	12411.1	11980.3	11205.9	10160.0	8967.2	8124.2	7958.7	8623.8	8914.2	10256.8
22.5°	13703.8	13616.4	13229.2	12476.7	11271.5	9838.4	8589.4	8083.6	8714.3	9032.8	10503.4
25°	14746.6	14752.9	14368.8	13641.3	12395.5	10762.6	9188.9	8417.7	8945.4	9276.4	10840.6
27.5°	16036.1	15961.2	15602.1	14880.9	13507.1	11696.1	9913.3	8876.7	9288.8	9622.9	11284.0
30°	17578.5	17525.5	17110.2	16292.2	14740.4	12698.4	10740.7	9410.6	9732.2	10078.8	11864.7
32.5°	19392.6	19367.6	18936.7	17884.5	16164.1	13878.6	11711.7	10116.3	10394.1	10753.2	12698.4
35°	21522.0	21525.1	21016.2	19751.7	17722.2	15252.4	12813.9	11024.8	11199.7	11574.4	13691.3
37.5°	22833.4	22992.6	22802.2	21512.6	19486.3	16788.6	14243.9	12230.0	12117.6	12495.4	14756.0
40°	23114.4	23308.0	23910.6	23254.9	21459.6	18480.9	15511.6	13388.4	13247.9	13710.0	16126.7
42.5°	22721.0	22989.5	24263.4	24725.5	23554.6	20566.6	17216.4	15108.8	14930.8	15552.2	17831.5
45°	22486.8	22686.6	24160.4	25490.5	25371.8	22923.9	19386.4	17269.4	17203.9	18018.8	19798.5
47.5°	22080.9	22262.0	23679.5	25668.4	26439.6	25084.6	21993.5	19910.9	20038.9	21106.7	22018.5
50°	22299.5	22374.4	23142.5	25215.7	26748.7	26667.6	24906.6	22970.8	23407.9	24741.1	24531.9
52.5°	22268.2	22461.8	23080.0	24472.6	26789.3	27644.8	27776.0	26383.4	27304.5	28834.4	27320.1
55°	18003.2	18359.1	22346.3	24285.2	26933.0	28603.4	30330.0	29980.3	31697.6	33480.4	30467.4
57.5°	17191.4	17416.2	19626.8	24678.7	27694.8	30433.1	33171.3	33939.4	36811.9	38882.0	34301.6
60°	17032.1	17310.0	19598.7	25159.5	29240.3	33414.9	37383.3	38732.1	43034.7	45301.4	38747.7
62.5°	16535.7	16835.4	19414.5	25097.0	31435.3	37539.4	42775.5	43827.7	48935.8	51140.2	42466.4
65°	14962.1	15243.1	17912.6	24088.5	32915.3	41941.9	49157.5	48498.7	53594.3	55252.2	44321.0
66°	13884.9	14159.6	16729.3	22902.1	32571.8	43190.8	51418.0	49944.3	54637.1	55936.0	43958.9
67.5°	11914.7	12130.1	14431.3	20245.0	30745.3	43540.5	53319.5	51030.9	54746.4	55205.4	41888.8
70°	7527.9	7590.3	9379.4	13975.4	23273.6	37761.1	50425.1	48333.2	50231.6	48988.9	35116.5
72.5°	3265.9	3244.1	4502.4	7109.5	13176.1	25337.5	40789.7	39881.1	39403.4	36568.4	24581.9
75°	1817.2	1842.2	2338.6	3300.3	5354.7	12445.5	26683.2	25534.2	21559.5	18396.6	11146.6
77.5°	1458.1	1492.5	1938.9	2341.7	2404.2	4340.0	12486.1	10160.0	6116.6	4908.3	3097.3
80°	1152.1	1214.6	1692.3	1823.4	1620.5	1789.1	4034.0	3225.3	2419.8	2220.0	1604.9
82.5°	911.7	955.4	1451.9	1380.1	1133.4	1205.2	1932.7	1882.7	1573.6	1433.1	927.3
85°	655.7	736.9	1192.7	1039.7	743.1	811.8	1283.3	1230.2	902.3	736.9	409.0
87.5°	268.5	349.7	843.0	690.0	415.3	377.8	640.1	602.6	427.8	312.2	202.9
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°	9416.9	9416.9	9416.9	9416.9	9416.9	9416.9	9416.9	9416.9	9416.9	9416.9	9416.9
2.5°	9407.5	9482.4	9579.2	9638.5	9669.8	9691.6	9726.0	9722.8	9732.2	9735.3	9747.8
5°	9469.9	9594.8	9735.3	9772.8	9772.8	9738.5	9704.1	9647.9	9626.1	9619.8	9626.1
7.5°	9632.3	9769.7	9891.4	9847.7	9754.1	9616.7	9438.7	9282.6	9198.3	9170.2	9164.0
10°	9838.4	10003.8	10053.8	9888.3	9613.6	9282.6	8929.8	8673.7	8527.0	8486.4	8473.9
12.5°	10088.2	10244.3	10175.6	9825.9	9316.9	8783.0	8296.0	7886.9	7580.9	7484.2	7477.9
15°	10362.9	10484.7	10244.3	9632.3	8873.6	8086.8	7218.8	6513.1	6132.2	6010.4	6001.1
17.5°	10618.9	10681.4	10203.7	9295.1	8221.0	6947.1	5795.0	5251.7	5120.6	5151.8	5158.0
20°	10837.5	10837.5	10066.3	8811.1	7193.8	5445.3	4717.8	4708.4	4802.1	4895.8	4914.5
22.5°	11077.9	10934.3	9825.9	8127.3	5738.8	4455.5	4349.4	4436.8	4542.9	4646.0	4661.6
25°	11374.5	11012.4	9491.8	7090.7	4511.7	4046.5	4087.1	4158.9	4212.0	4277.6	4286.9
27.5°	11705.5	11112.3	9051.5	5663.9	3915.4	3790.5	3821.7	3846.7	3840.4	3865.4	3871.7
30°	12102.0	11227.8	8448.9	4427.4	3668.7	3571.9	3515.7	3493.9	3493.9	3534.4	3550.1
32.5°	12632.8	11399.5	7584.1	3793.6	3550.1	3415.8	3234.7	3153.5	3184.7	3322.1	3353.4
35°	13216.7	11583.7	6413.2	3578.2	3525.1	3344.0	3063.0	2913.1	2916.2	3044.2	3084.8
37.5°	13853.6	11817.9	5129.9	3537.6	3581.3	3347.1	2972.4	2766.4	2682.1	2682.1	2697.7
40°	14668.6	12058.3	4152.7	3565.7	3699.9	3384.6	2925.6	2650.8	2413.5	2419.8	2432.3
42.5°	15730.1	12264.4	3628.1	3625.0	3843.6	3434.5	2922.5	2497.8	2291.8	2432.3	2560.3
45°	16910.4	12367.4	3397.1	3678.1	3959.1	3465.8	2872.5	2472.9	2307.4	2725.8	2969.3
47.5°	18268.6	12308.1	3269.0	3696.8	3987.2	3465.8	2816.3	2532.2	2416.7	3156.6	3440.8
50°	19757.9	12136.4	3144.2	3659.3	3977.8	3459.5	2869.4	2591.5	2457.3	3231.6	3428.3
52.5°	21509.5	11992.8	3013.0	3578.2	3912.2	3425.2	2931.8	2566.5	2329.2	2938.1	3075.5
55°	23507.8	12033.3	2866.3	3462.6	3809.2	3359.6	2910.0	2466.6	2195.0	2588.4	2672.7
57.5°	26061.8	12517.3	2691.4	3315.9	3668.7	3250.3	2831.9	2419.8	2154.4	2348.0	2397.9
60°	28912.5	13360.3	2472.9	3169.1	3493.9	3075.5	2772.6	2441.6	2173.1	2329.2	2354.2
62.5°	31004.4	13850.5	2285.5	2953.7	3256.6	2881.9	2697.7	2469.7	2223.1	2394.8	2388.6
65°	31572.7	13045.0	2051.4	2638.3	2935.0	2678.9	2604.0	2501.0	2244.9	2447.9	2419.8
66°	30776.5	12177.0	1948.3	2491.6	2772.6	2579.0	2557.2	2497.8	2235.6	2454.1	2407.3
67.5°	28843.8	10397.3	1770.3	2276.2	2513.5	2429.1	2482.2	2469.7	2210.6	2447.9	2382.3
70°	23523.4	7093.9	1514.3	1895.2	2091.9	2138.8	2338.6	2369.8	2129.4	2338.6	2195.0
72.5°	16435.8	4321.3	1339.5	1470.6	1692.3	1823.4	2141.9	2232.4	2020.1	2042.0	1904.6
75°	7943.1	2294.9	1214.6	1139.6	1314.5	1523.7	1904.6	2045.1	1848.4	1707.9	1657.9
77.5°	2476.0	1401.9	1030.4	918.0	1030.4	1230.2	1592.4	1792.2	1645.5	1430.0	1411.3
80°	1330.1	1030.4	793.1	736.9	814.9	964.8	1252.0	1495.6	1414.4	1283.3	1145.9
82.5°	877.4	668.2	587.0	571.4	621.3	736.9	930.4	1239.6	1239.6	1099.0	799.3
85°	452.7	409.0	402.8	402.8	434.0	490.2	633.8	955.4	1017.9	580.7	480.8
87.5°	224.8	234.2	218.6	227.9	243.5	240.4	302.9	480.8	574.5	352.8	293.5
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)