

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: P193223

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193223
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-05-LED-E1-T3R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23769.3 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 210
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



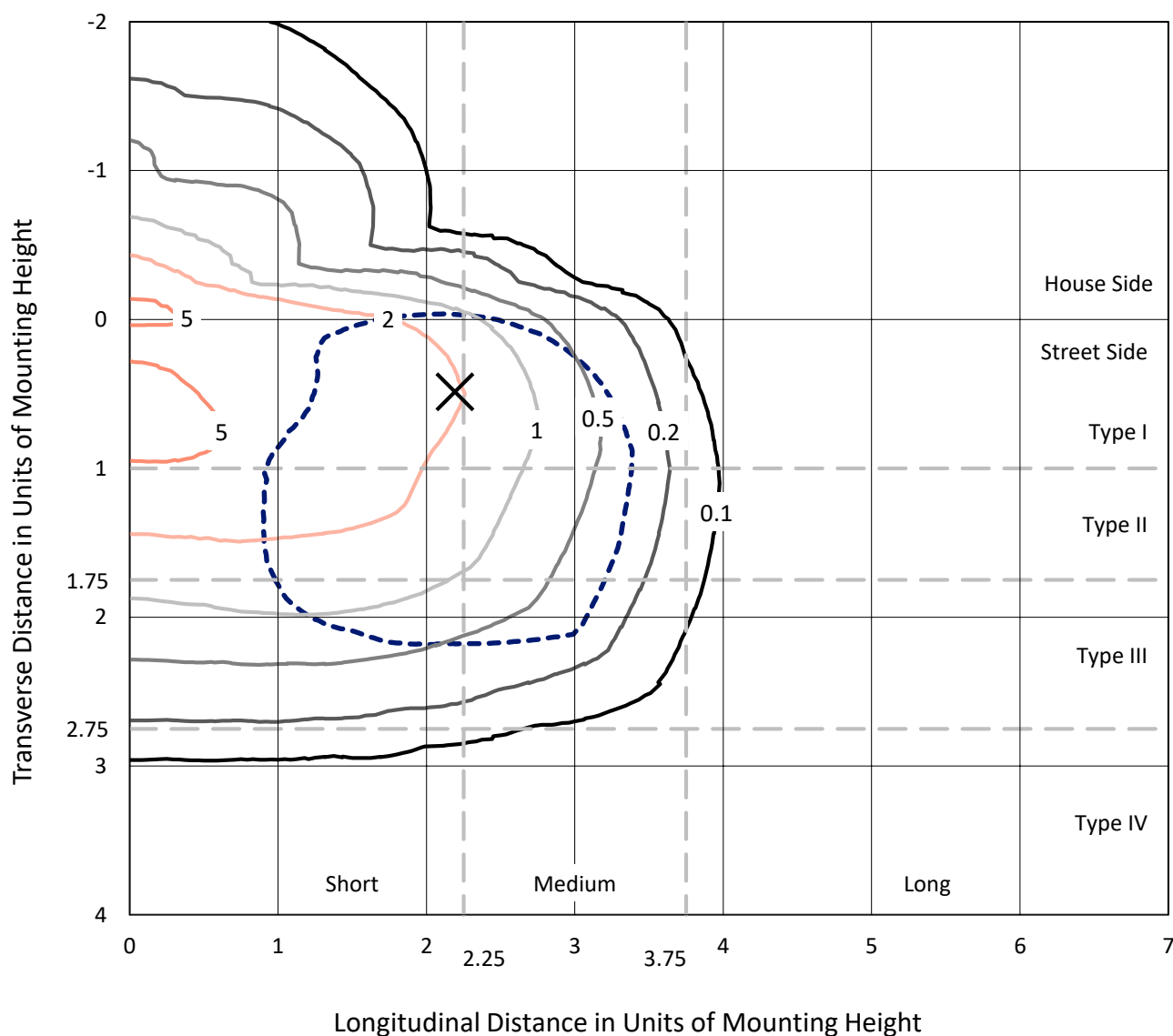
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

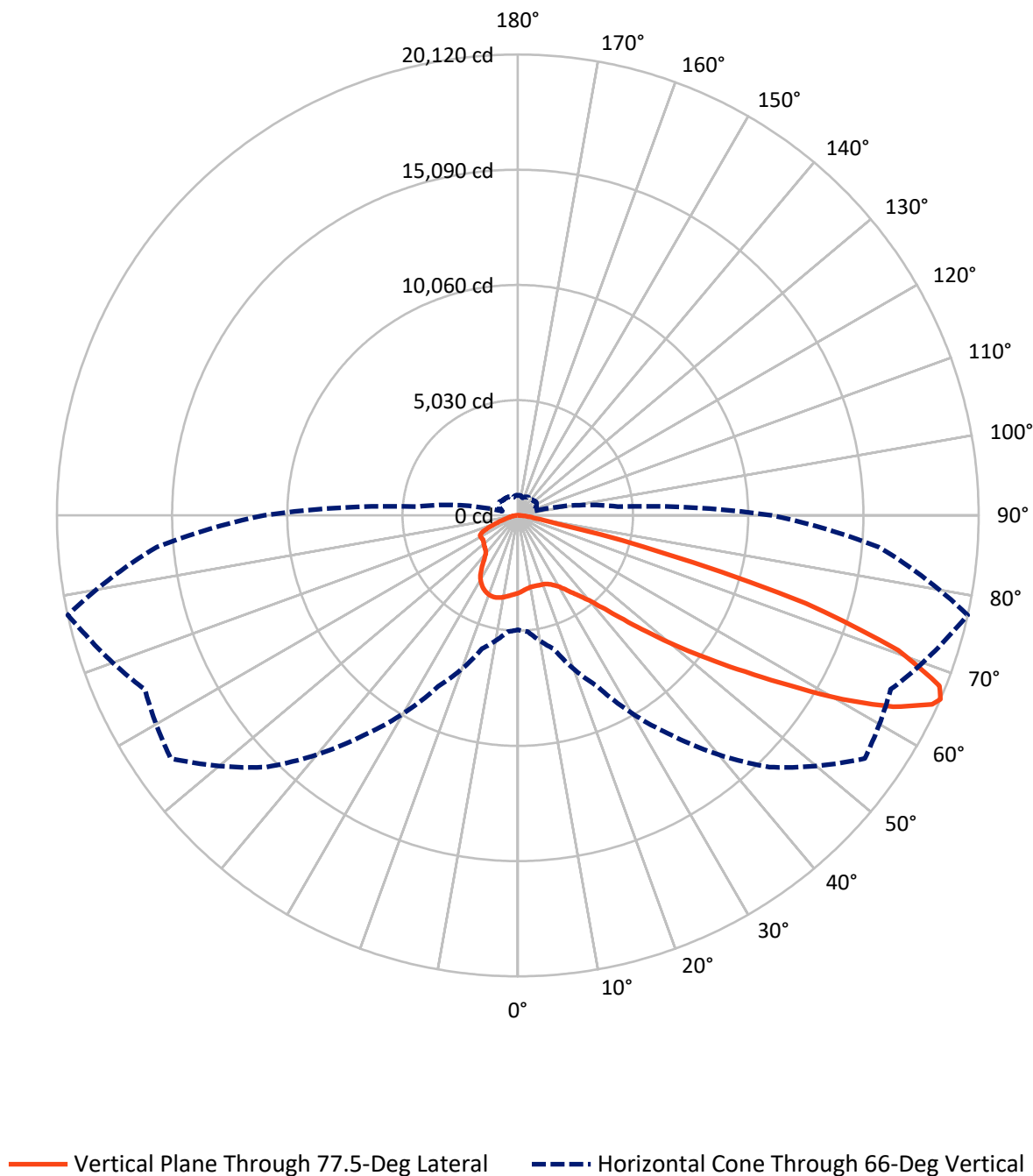


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4060.8	0.0	4060.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	19708.5	0.0	19708.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	23769.3	0.0	23769.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.6	1.3
10°-20°	853.7	3.6
20°-30°	1457.1	6.1
30°-40°	2332.5	9.8
40°-50°	3603.5	15.2
50°-60°	5110.9	21.5
60°-70°	6837.1	28.8
70°-80°	2969.2	12.5
80°-90°	302.8	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°	23769.3	100.0
0°-180°	23769.3	100.0

Coefficient of Utilization



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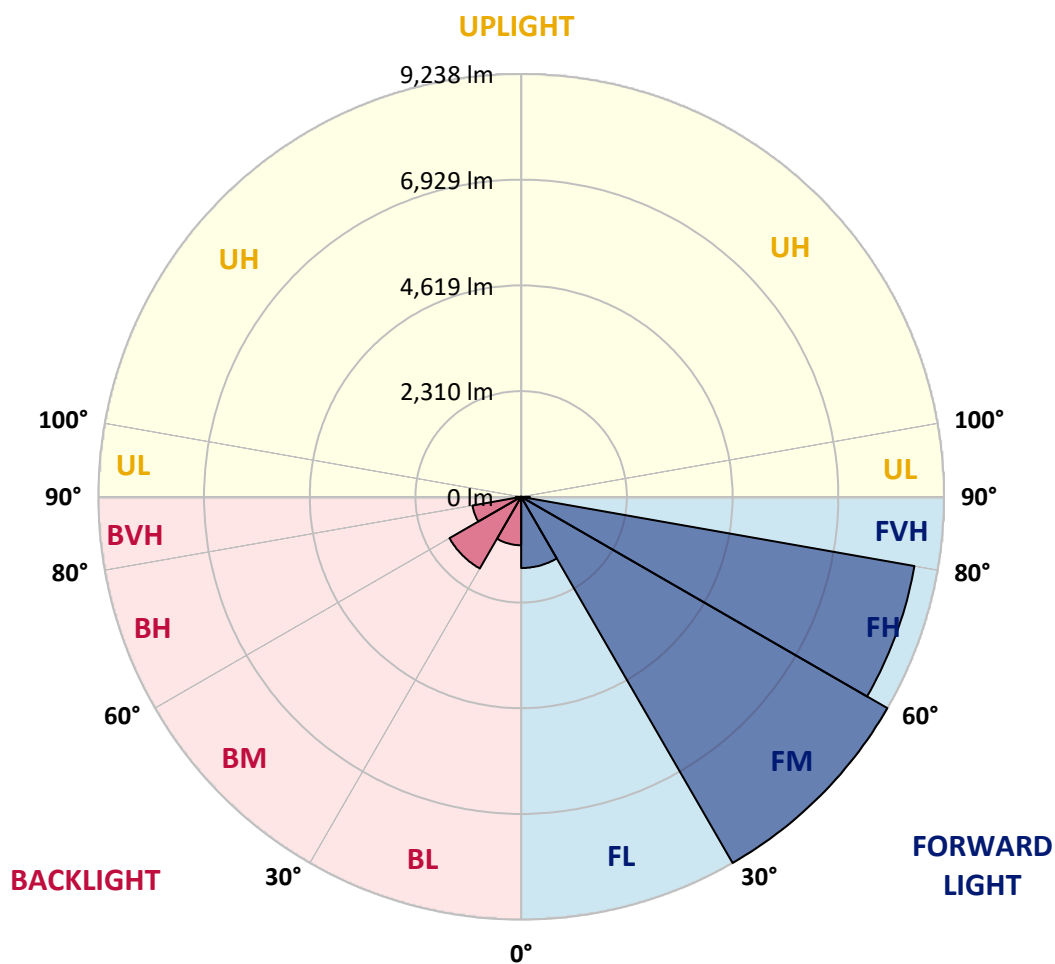
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1555.8	6.5			
FM	(30°-60°)	9238.0	38.9			
FH	(60°-80°)	8724.8	36.7			G4/12000
FVH	(80°-90°)	189.9	0.8			G2/225
BL	(0°-30°)	1057.6	4.4	B3/2500		
BM	(30°-60°)	1808.9	7.6	B2/2500		
BH	(60°-80°)	1081.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	112.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3387.2	3387.2	3387.2	3387.2	3387.2	3387.2	3387.2	3387.2	3387.2	3387.2	3387.2
2.5°	2996.4	3016.6	3033.5	3049.2	3080.7	3132.4	3191.8	3240.1	3309.8	3323.2	3360.3
5°	2721.2	2721.2	2734.8	2758.4	2801.0	2878.4	2959.4	3067.1	3218.8	3254.8	3353.6
7.5°	2587.6	2588.7	2596.5	2616.8	2653.9	2724.6	2813.3	2940.2	3145.8	3205.3	3373.8
10°	2637.0	2625.8	2608.9	2598.8	2604.4	2646.0	2730.3	2871.8	3100.9	3177.3	3418.7
12.5°	2913.3	2892.0	2833.5	2756.1	2682.0	2651.6	2701.0	2839.2	3081.7	3170.4	3478.3
15°	3364.7	3355.8	3246.8	3086.2	2906.6	2756.1	2722.4	2826.9	3084.1	3178.4	3549.0
17.5°	3930.8	3918.5	3774.7	3541.1	3248.0	2954.8	2797.6	2836.9	3091.8	3191.8	3617.5
20°	4502.5	4464.4	4309.3	4030.8	3654.5	3225.6	2922.2	2862.8	3102.0	3206.4	3689.3
22.5°	4929.2	4897.8	4758.6	4487.9	4054.4	3538.9	3089.7	2907.7	3134.5	3249.2	3778.0
25°	5304.3	5306.6	5168.5	4906.9	4458.7	3871.3	3305.3	3027.9	3217.6	3336.7	3899.4
27.5°	5768.3	5741.2	5612.1	5352.6	4858.5	4207.1	3565.7	3193.0	3341.1	3461.4	4058.9
30°	6323.1	6303.9	6154.6	5860.3	5302.2	4567.6	3863.4	3385.0	3500.6	3625.3	4267.7
32.5°	6975.5	6966.6	6811.6	6433.0	5814.2	4992.2	4212.7	3638.8	3738.8	3867.9	4567.6
35°	7741.4	7742.5	7559.5	7104.7	6374.6	5486.4	4609.2	3965.7	4028.5	4163.4	4924.8
37.5°	8213.1	8270.5	8202.0	7738.1	7009.2	6038.9	5123.5	4399.1	4358.7	4494.6	5307.7
40°	8314.3	8383.9	8600.7	8364.8	7719.0	6647.6	5579.6	4815.8	4765.3	4931.5	5800.8
42.5°	8172.7	8269.3	8727.5	8893.8	8472.6	7397.8	6192.7	5434.7	5370.6	5594.1	6413.9
45°	8088.5	8160.3	8690.5	9168.9	9126.2	8245.8	6973.3	6211.8	6188.2	6481.4	7121.5
47.5°	7942.5	8007.6	8517.6	9233.0	9510.4	9022.9	7911.0	7162.0	7208.1	7592.1	7920.1
50°	8021.2	8048.0	8324.4	9070.0	9621.5	9592.3	8958.9	8262.6	8419.8	8899.3	8824.1
52.5°	8009.9	8079.5	8301.8	8802.8	9636.1	9943.9	9991.0	9490.1	9821.5	10371.8	9827.1
55°	6475.8	6603.7	8037.9	8735.4	9687.8	10288.6	10909.7	10783.9	11401.6	12042.9	10959.1
57.5°	6183.7	6264.6	7059.8	8876.9	9961.8	10946.8	11931.7	12208.0	13241.2	13985.8	12338.3
60°	6126.5	6226.4	7049.6	9049.8	10517.8	12019.3	13446.7	13931.9	15479.6	16294.9	13937.5
62.5°	5947.8	6055.7	6983.5	9027.4	11307.2	13503.0	15386.3	15764.8	17602.2	18395.1	15275.2
65°	5381.9	5482.9	6443.1	8664.7	11839.7	15086.5	17682.0	17445.0	19277.9	19874.3	15942.2
66°	4994.3	5093.2	6017.6	8237.9	11716.1	15535.7	18495.1	17965.0	19653.0	20120.2	15812.0
67.5°	4285.7	4363.2	5190.9	7282.1	11059.1	15661.6	19179.1	18355.8	19692.4	19857.5	15067.4
70°	2707.8	2730.3	3373.8	5026.9	8371.6	13582.7	18137.9	17385.5	18068.3	17621.4	12631.5
72.5°	1174.7	1166.9	1619.5	2557.3	4739.4	9113.9	14672.1	14345.3	14173.4	13153.6	8842.2
75°	653.6	662.6	841.2	1187.1	1926.1	4476.7	9598.0	9184.7	7755.0	6617.3	4009.5
77.5°	524.5	536.8	697.4	842.3	864.8	1561.1	4491.2	3654.5	2200.2	1765.5	1114.1
80°	414.4	436.9	608.7	655.9	582.9	643.5	1451.1	1160.2	870.4	798.4	577.2
82.5°	328.0	343.6	522.3	496.4	407.6	433.5	695.2	677.2	566.1	515.4	333.6
85°	235.9	265.1	429.1	374.0	267.2	292.0	461.6	442.5	324.6	265.1	147.2
87.5°	96.5	125.7	303.2	248.2	149.3	135.9	230.2	216.8	153.8	112.3	72.9
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°	3387.2	3387.2	3387.2	3387.2	3387.2	3387.2	3387.2	3387.2	3387.2	3387.2	3387.2
2.5°	3383.9	3410.8	3445.6	3467.1	3478.3	3486.0	3498.5	3497.3	3500.6	3501.8	3506.2
5°	3406.3	3451.3	3501.8	3515.3	3515.3	3503.0	3490.7	3470.4	3462.5	3460.2	3462.5
7.5°	3464.7	3514.1	3557.9	3542.1	3508.6	3459.1	3395.1	3339.0	3308.6	3298.5	3296.3
10°	3538.9	3598.4	3616.4	3556.8	3457.9	3339.0	3212.0	3119.9	3067.1	3052.6	3048.2
12.5°	3628.7	3684.9	3660.1	3534.3	3351.3	3159.2	2984.1	2836.9	2726.9	2692.0	2689.9
15°	3727.5	3771.3	3684.9	3464.7	3191.8	2908.8	2596.5	2342.7	2205.7	2161.9	2158.6
17.5°	3819.6	3842.1	3670.2	3343.5	2957.1	2498.9	2084.4	1889.1	1841.9	1853.1	1855.3
20°	3898.3	3898.3	3620.9	3169.4	2587.6	1958.7	1697.1	1693.6	1727.3	1761.0	1767.7
22.5°	3984.6	3933.2	3534.3	2923.4	2064.2	1602.7	1564.5	1596.0	1634.1	1671.1	1676.8
25°	4091.4	3961.2	3414.3	2550.5	1622.8	1455.6	1470.1	1496.0	1515.1	1538.6	1541.9
27.5°	4210.6	3997.0	3255.8	2037.2	1408.4	1363.4	1374.7	1383.7	1381.4	1390.5	1392.6
30°	4353.1	4038.7	3039.0	1592.6	1319.7	1284.8	1264.5	1256.7	1256.7	1271.3	1276.9
32.5°	4544.0	4100.4	2727.9	1364.5	1276.9	1228.6	1163.5	1134.3	1145.6	1195.0	1206.2
35°	4754.1	4166.7	2306.8	1287.1	1268.0	1202.8	1101.8	1047.8	1049.0	1095.0	1109.6
37.5°	4983.2	4250.9	1845.3	1272.5	1288.1	1203.9	1069.2	995.1	964.8	964.8	970.3
40°	5276.2	4337.4	1493.7	1282.6	1330.9	1217.4	1052.3	953.5	868.2	870.4	874.8
42.5°	5658.1	4411.5	1305.0	1303.9	1382.5	1235.4	1051.2	898.4	824.4	874.8	920.9
45°	6082.7	4448.6	1221.9	1323.0	1424.0	1246.6	1033.3	889.5	830.0	980.5	1068.0
47.5°	6571.2	4427.1	1175.8	1329.8	1434.1	1246.6	1013.1	910.7	869.2	1135.4	1237.7
50°	7106.9	4365.5	1131.0	1316.2	1430.9	1244.4	1032.2	932.2	883.9	1162.4	1233.2
52.5°	7736.9	4313.8	1083.8	1287.1	1407.3	1232.0	1054.6	923.1	837.8	1056.9	1106.2
55°	8455.8	4328.5	1031.0	1245.5	1370.2	1208.4	1046.7	887.3	789.5	931.0	961.4
57.5°	9374.5	4502.5	968.1	1192.7	1319.7	1169.2	1018.7	870.4	774.9	844.6	862.5
60°	10399.9	4805.7	889.5	1139.9	1256.7	1106.2	997.3	878.2	781.6	837.8	846.8
62.5°	11152.3	4982.0	822.0	1062.4	1171.4	1036.7	970.3	888.4	799.7	861.4	859.3
65°	11356.7	4692.2	737.8	949.0	1055.7	963.6	936.7	899.6	807.5	880.5	870.4
66°	11070.3	4380.1	700.8	896.3	997.3	927.7	919.9	898.4	804.1	882.7	865.9
67.5°	10375.1	3740.0	636.8	818.7	904.1	873.7	892.8	888.4	795.2	880.5	856.9
70°	8461.4	2551.6	544.6	681.7	752.5	769.3	841.2	852.4	765.9	841.2	789.5
72.5°	5911.9	1554.3	481.9	529.0	608.7	655.9	770.4	803.0	726.7	734.6	685.0
75°	2857.1	825.5	436.9	409.9	472.9	548.1	685.0	735.7	664.9	614.4	596.3
77.5°	890.6	504.2	370.6	330.2	370.6	442.5	572.7	644.6	591.8	514.4	507.6
80°	478.4	370.6	285.2	265.1	293.2	347.0	450.3	538.0	508.7	461.6	412.1
82.5°	315.5	240.4	211.1	205.5	223.6	265.1	334.7	445.9	445.9	395.3	287.5
85°	162.8	147.2	144.9	144.9	156.1	176.4	228.1	343.6	366.1	208.9	172.9
87.5°	80.9	84.2	78.6	82.0	87.6	86.5	108.9	172.9	206.6	127.0	105.6
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)