

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: P194057

Luminaire Tested: **GLEON-AF-09-LED-E1-T4FT-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T4FT-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28782 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 290
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

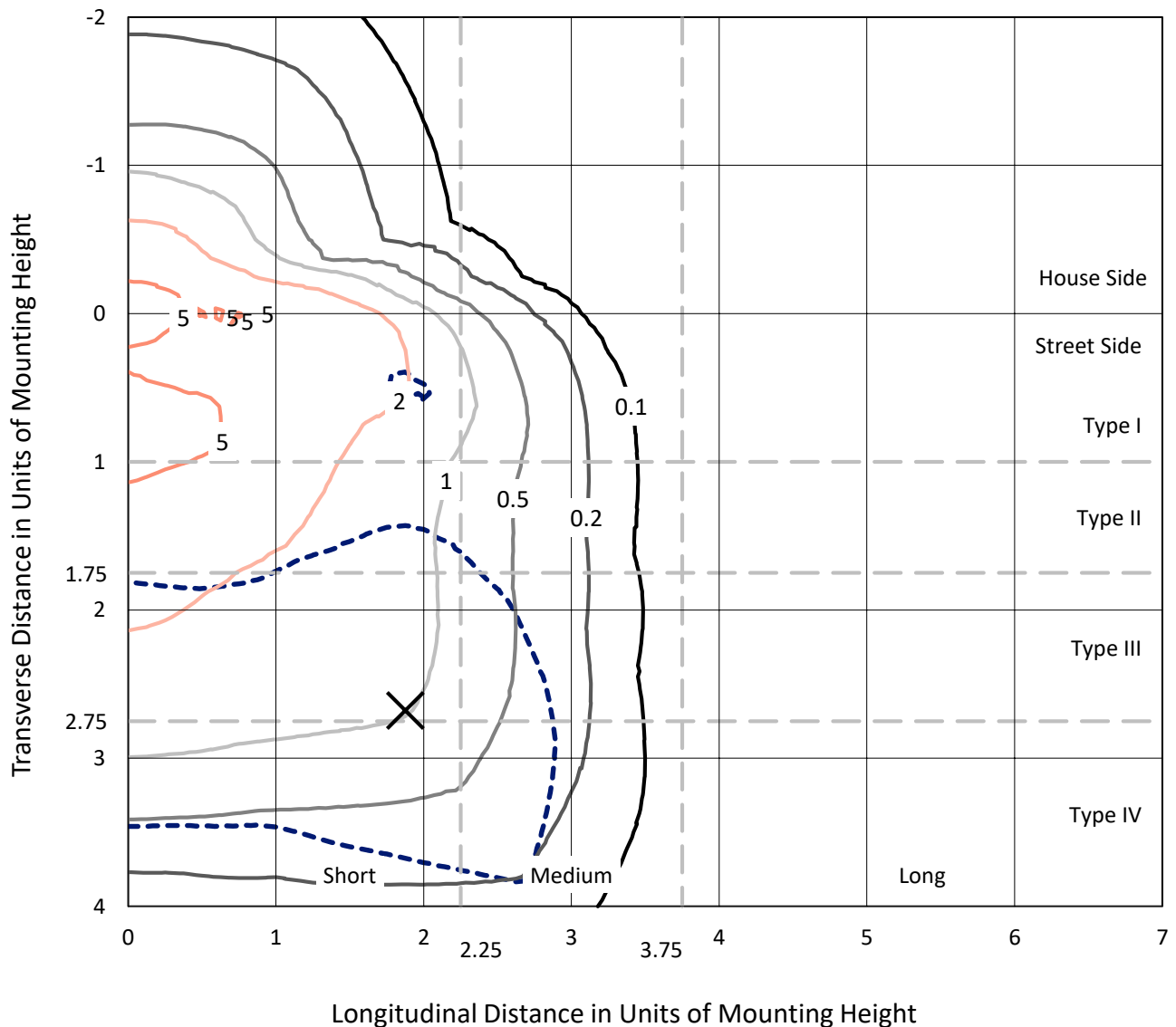


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

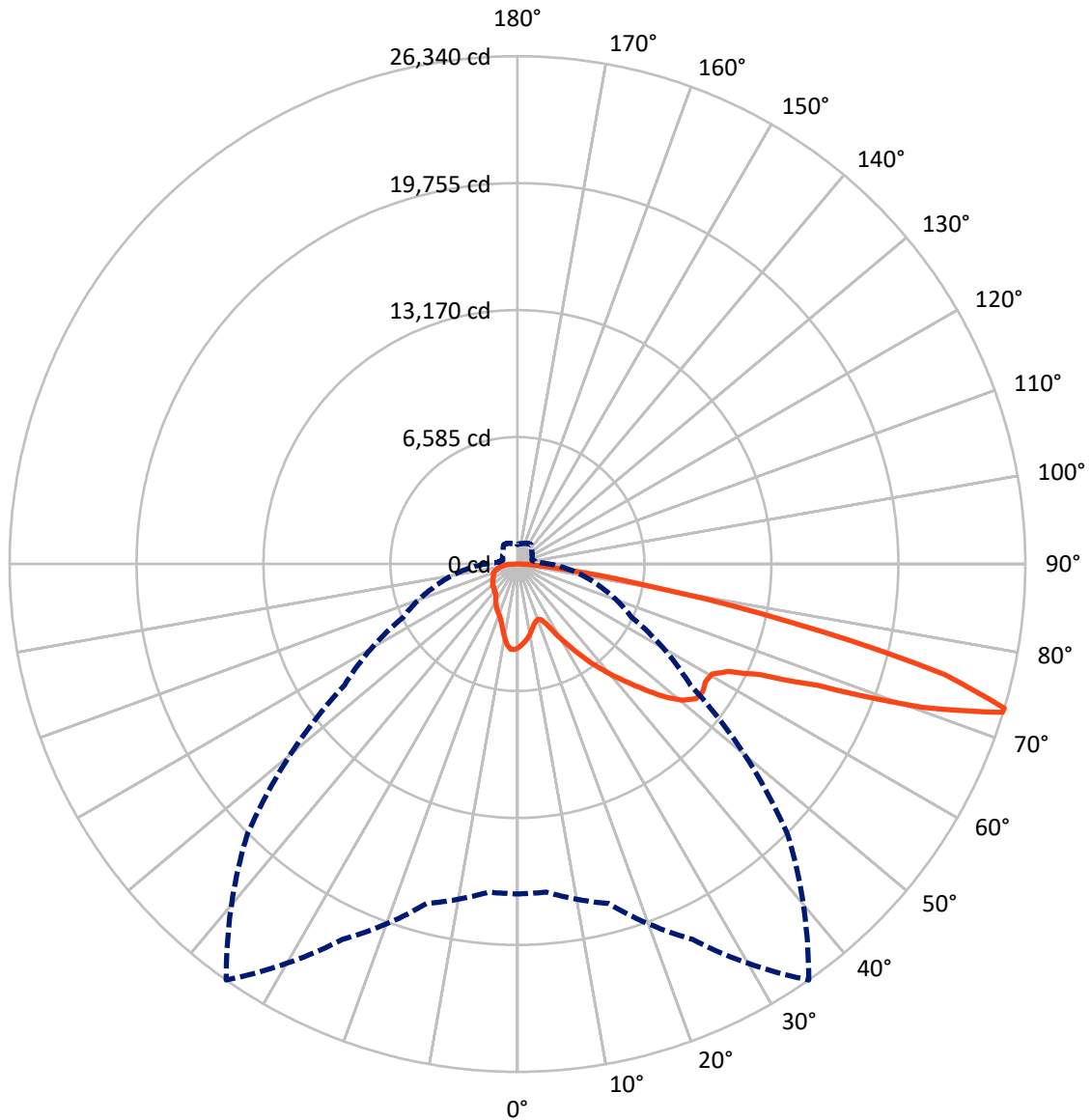


Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5489.5	0.0	5489.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	23292.5	0.0	23292.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	28782.0	0.0	28782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.3	1.4
10°-20°	981.5	3.4
20°-30°	1586.8	5.5
30°-40°	2660.8	9.2
40°-50°	4101.5	14.3
50°-60°	5502.7	19.1
60°-70°	7330.6	25.5
70°-80°	5591.1	19.4
80°-90°	633.7	2.2
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°	28782.0	100.0
0°-180°	28782.0	100.0

Coefficient of Utilization



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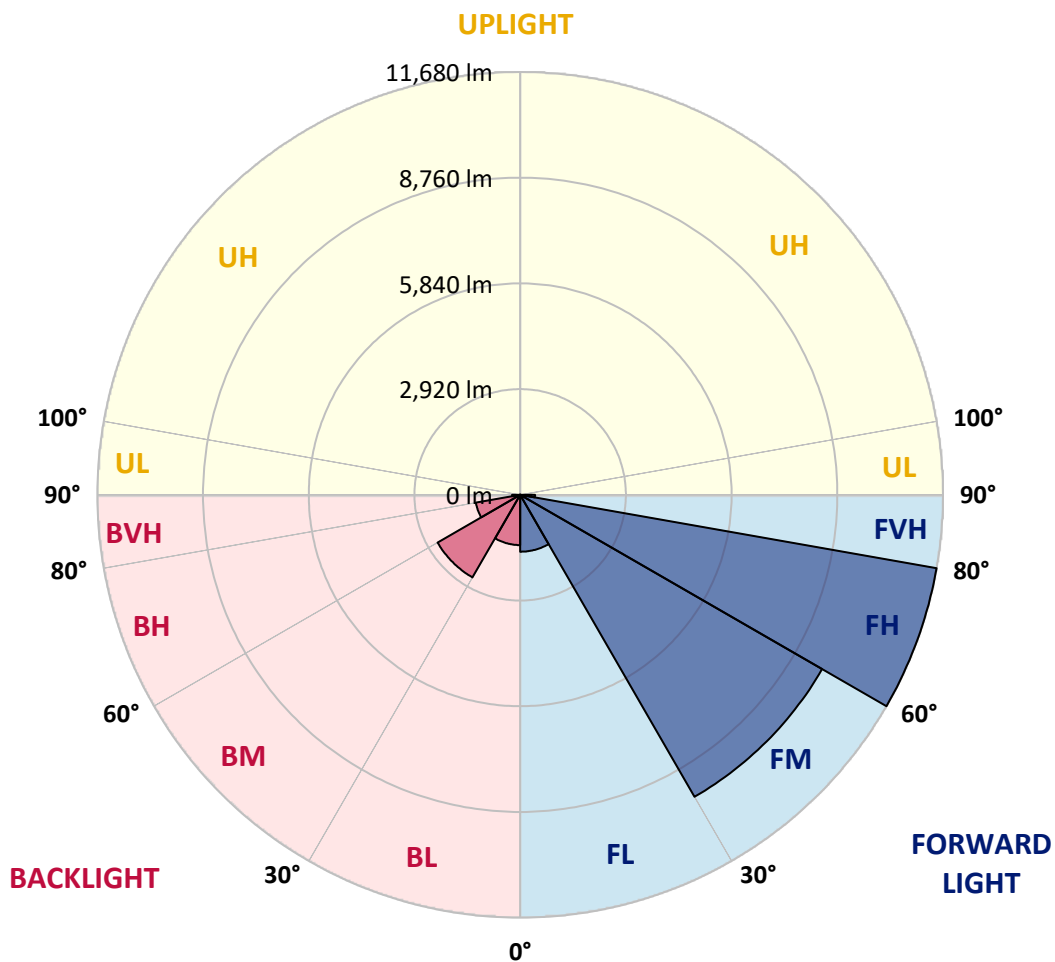
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1572.5	5.5			
FM	(30°-60°)	9630.6	33.5			
FH	(60°-80°)	11679.7	40.6			G4/12000
FVH	(80°-90°)	409.6	1.4			G3/500
BL	(0°-30°)	1389.1	4.8	B3/2500		
BM	(30°-60°)	2634.4	9.2	B3/5000		
BH	(60°-80°)	1242.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	224.1	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1
2.5°	4172.7	4181.0	4171.3	4183.8	4204.5	4226.6	4241.8	4263.9	4288.8	4323.4	4331.7
5°	3976.4	3988.9	3988.9	4011.0	4051.1	4087.0	4120.2	4156.1	4208.6	4268.1	4291.6
7.5°	3760.8	3767.7	3780.2	3813.4	3871.4	3922.5	3969.5	4027.6	4099.5	4178.2	4219.7
10°	3501.0	3510.7	3530.0	3577.0	3655.8	3726.3	3794.0	3874.2	3965.4	4063.5	4116.0
12.5°	3317.2	3314.4	3322.7	3357.2	3426.4	3512.0	3610.2	3712.5	3824.4	3939.1	4002.7
15°	3255.0	3239.8	3208.0	3199.7	3237.0	3322.7	3436.0	3561.8	3695.9	3834.1	3912.9
17.5°	3293.7	3267.4	3180.3	3116.7	3111.2	3176.2	3296.4	3437.4	3592.2	3760.8	3859.0
20°	3536.9	3474.7	3260.5	3112.6	3061.5	3093.3	3198.3	3347.6	3530.0	3753.9	3879.7
22.5°	4118.8	4027.6	3572.9	3297.8	3125.0	3086.3	3165.1	3324.1	3536.9	3839.6	3999.9
25°	4966.1	4836.1	4109.1	3759.4	3402.9	3196.9	3214.9	3378.0	3635.1	4038.6	4232.1
27.5°	5635.0	5550.7	4809.9	4410.4	3908.7	3495.5	3376.6	3513.4	3835.5	4364.8	4562.5
30°	6033.1	5981.9	5559.0	5148.5	4554.2	3970.9	3686.2	3767.7	4149.2	4816.8	4979.9
32.5°	6494.7	6464.3	6257.0	5879.7	5250.8	4595.6	4176.9	4147.8	4569.4	5360.0	5434.6
35°	6972.9	6963.3	6841.6	6570.7	5998.5	5419.4	4827.9	4631.6	5026.9	5923.9	5876.9
37.5°	7418.0	7401.4	7330.9	7173.4	6780.8	6304.0	5491.3	5127.8	5520.3	6462.9	6254.2
40°	8237.6	8107.7	7865.8	7747.0	7571.4	7049.0	6017.9	5590.8	6031.7	6977.1	6580.4
42.5°	9236.9	9025.4	8574.9	8411.8	8386.9	7636.4	6377.2	6040.0	6547.2	7487.1	6901.1
45°	10023.4	9824.3	9435.9	9230.0	9321.2	8168.5	6738.0	6519.6	7078.0	8022.0	7231.4
47.5°	10862.3	10550.0	10035.8	10098.0	10297.0	8671.6	7105.6	7035.1	7659.9	8620.5	7641.9
50°	10892.7	10653.6	10428.3	10800.1	11109.7	9134.6	7565.9	7575.6	8371.7	9373.7	8187.9
52.5°	10261.1	10209.9	10567.9	11152.6	11599.0	9500.9	8089.7	8134.0	9282.5	10239.0	8787.7
55°	10039.9	9981.9	10395.2	11029.6	11665.3	9803.6	8657.8	8738.0	10384.1	11151.2	9372.4
57.5°	10579.0	10450.4	10478.1	10971.5	11503.6	10135.3	9277.0	9438.7	11581.0	11948.7	9748.3
60°	12085.5	11810.5	11288.0	11275.6	11590.7	10632.9	9992.9	10190.6	12825.0	12330.2	9601.8
62.5°	14198.8	13923.8	12945.2	12308.0	12261.1	11453.9	10872.0	10924.5	13543.7	11813.2	8707.5
65°	16486.3	16240.3	15147.0	14247.2	13813.2	12813.9	11893.4	11252.1	13308.7	10391.0	7143.0
67.5°	19263.0	18999.0	18059.2	17228.5	16811.1	15008.8	12610.7	10938.3	11817.4	8049.6	5134.7
70°	21204.9	20935.4	20565.0	21238.1	22259.5	18175.3	12703.3	9662.6	8826.4	5350.3	3090.5
72.5°	18671.5	18545.7	19221.6	22056.4	26310.6	20096.5	11482.9	7035.1	5126.4	2840.3	1788.5
73°	17106.9	17079.2	18231.9	21482.8	26339.6	19800.7	10948.0	6539.0	4396.6	2512.7	1635.1
75°	7724.8	7947.4	10473.9	16408.9	22884.3	16316.3	7705.5	3751.2	2483.7	1736.0	1234.3
77.5°	1856.2	1933.6	3277.1	7792.6	14451.8	9723.4	3491.3	1854.8	1588.1	1226.0	901.2
80°	790.6	816.9	1261.9	2879.0	6804.3	3915.6	1608.8	1242.6	1098.8	855.6	631.6
82.5°	439.5	467.2	716.0	1306.1	2746.3	1335.2	981.3	865.2	722.9	515.5	410.5
85°	248.8	264.0	418.8	729.8	1163.8	536.3	587.4	575.0	407.7	265.4	201.8
87.5°	117.5	127.2	201.8	338.6	456.1	210.1	298.5	329.0	255.7	161.7	105.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1
2.5°	4341.3	4366.2	4395.2	4410.4	4424.3	4440.8	4457.4	4457.4	4460.2	4461.6
5°	4310.9	4362.1	4407.7	4427.0	4431.2	4431.2	4427.0	4404.9	4385.6	4393.9
7.5°	4247.3	4322.0	4360.7	4353.8	4301.3	4240.4	4189.3	4127.1	4095.3	4089.8
10°	4156.1	4241.8	4248.7	4179.6	4049.7	3919.8	3812.0	3706.9	3657.2	3644.7
12.5°	4055.2	4134.0	4089.8	3947.4	3738.7	3549.4	3412.5	3306.1	3259.1	3246.7
15°	3973.7	4027.6	3915.6	3691.7	3429.1	3228.7	3115.4	3036.6	3003.4	2993.7
17.5°	3930.8	3941.9	3737.3	3434.6	3155.4	2988.2	2917.7	2880.4	2868.0	2861.1
20°	3951.6	3874.2	3567.3	3195.5	2931.5	2814.1	2797.5	2787.8	2785.0	2780.9
22.5°	4055.2	3853.4	3411.1	2968.9	2735.3	2684.1	2698.0	2696.6	2693.8	2691.0
25°	4240.4	3871.4	3259.1	2753.2	2570.8	2559.7	2584.6	2584.6	2573.6	2573.6
27.5°	4485.1	3908.7	3089.1	2548.7	2421.5	2422.9	2442.3	2436.7	2424.3	2416.0
30°	4783.6	3932.2	2890.1	2364.9	2281.9	2276.4	2281.9	2258.4	2221.1	2218.4
32.5°	5089.1	3903.2	2659.3	2201.8	2134.0	2121.6	2117.5	2084.3	2041.4	2029.0
35°	5365.5	3796.8	2424.3	2071.8	1993.1	1965.4	1984.8	1973.7	1935.0	1925.3
37.5°	5567.3	3599.1	2212.8	1957.1	1892.2	1885.3	1897.7	1901.8	1856.2	1846.6
40°	5702.8	3331.0	2031.8	1860.4	1872.8	1846.6	1805.1	1776.1	1762.2	1758.1
42.5°	5811.9	3051.8	1879.7	1814.8	1877.0	1800.9	1711.1	1664.1	1689.0	1700.0
45°	5937.7	2779.5	1752.6	1758.1	1856.2	1748.4	1646.1	1600.5	1610.2	1613.0
47.5°	6110.5	2447.8	1615.7	1666.9	1787.1	1712.5	1606.1	1541.1	1495.5	1474.8
50°	6349.6	2055.3	1473.4	1564.6	1719.4	1686.2	1543.9	1474.8	1390.4	1371.1
52.5°	6515.5	1689.0	1355.9	1478.9	1658.6	1633.7	1494.1	1404.3	1315.8	1299.2
55°	6425.6	1402.9	1253.6	1383.5	1578.4	1568.7	1452.6	1332.4	1263.3	1249.5
57.5°	5976.4	1221.8	1174.8	1293.7	1480.3	1513.5	1397.4	1271.6	1221.8	1212.1
60°	5119.5	1108.5	1125.1	1232.9	1400.1	1458.2	1342.1	1238.4	1205.2	1198.3
62.5°	3972.3	1032.5	1087.8	1188.6	1337.9	1419.5	1311.7	1234.3	1221.8	1213.5
65°	2845.8	971.7	1047.7	1144.4	1281.3	1383.5	1300.6	1228.7	1231.5	1224.6
67.5°	1933.6	917.7	999.3	1094.7	1226.0	1351.7	1285.4	1209.4	1243.9	1235.6
70°	1353.1	865.2	942.6	1031.1	1156.9	1307.5	1257.8	1180.4	1177.6	1144.4
72.5°	1056.0	796.1	865.2	942.6	1068.4	1245.3	1202.5	1115.4	1069.8	1035.2
73°	1007.6	779.5	845.9	923.3	1049.1	1230.1	1187.3	1097.4	1046.3	1014.5
75°	833.4	707.7	768.5	837.6	966.1	1158.2	1112.6	1015.9	950.9	931.6
77.5°	655.1	605.4	663.4	725.6	851.4	1053.2	1002.1	909.5	873.5	856.9
80°	485.1	501.7	552.9	608.1	738.1	941.2	895.6	803.0	963.4	923.3
82.5°	341.4	380.1	427.1	476.8	619.2	832.1	776.8	681.4	704.9	586.0
85°	201.8	248.8	293.0	335.9	446.4	689.7	641.3	543.2	445.1	424.3
87.5°	117.5	138.2	150.7	194.9	306.8	519.7	452.0	402.2	230.8	156.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)