

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: P269507

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269507  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-T3-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29560.3 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 295  
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

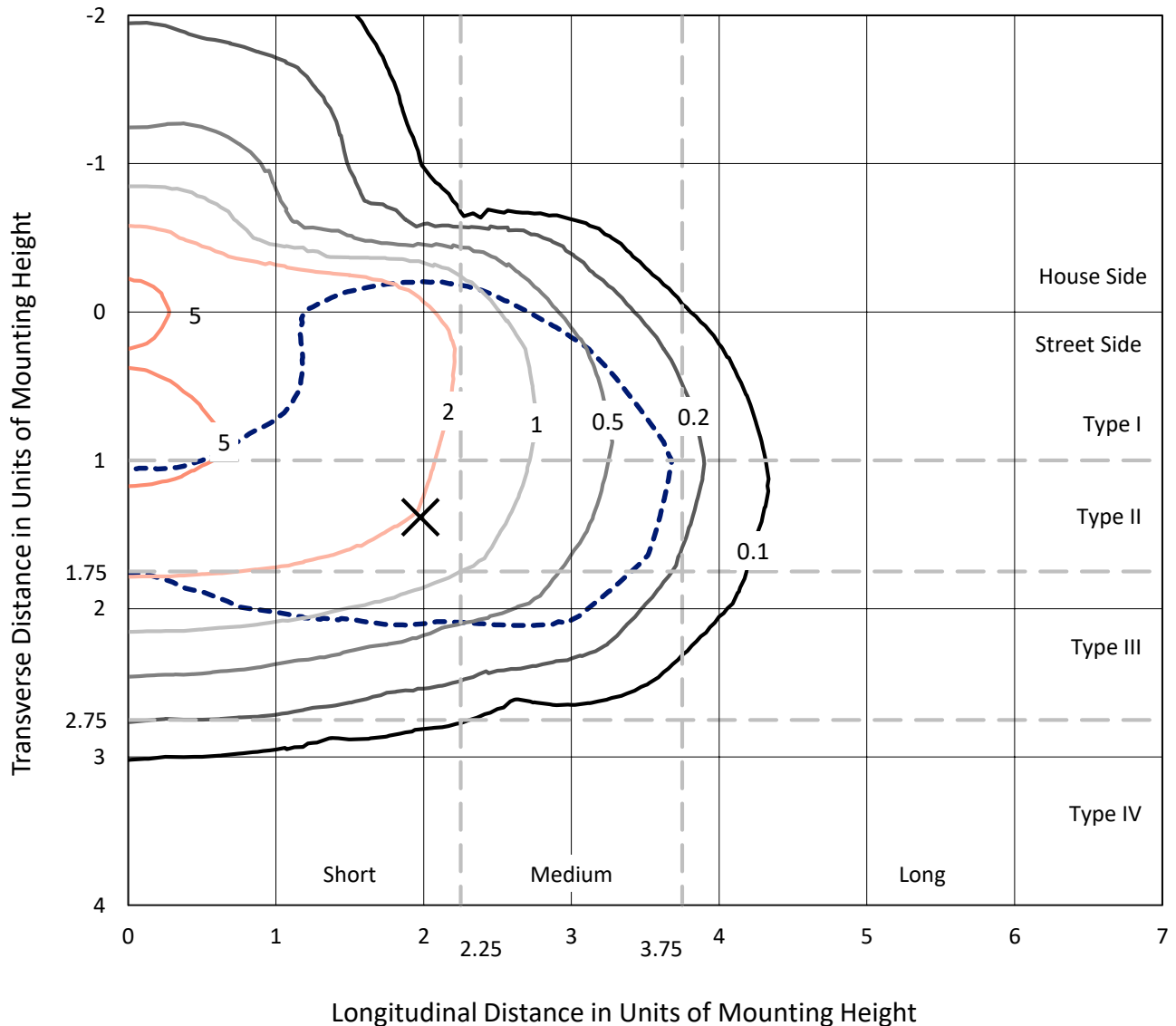


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### Iso-Footcandle Lines of Horizontal Illumination

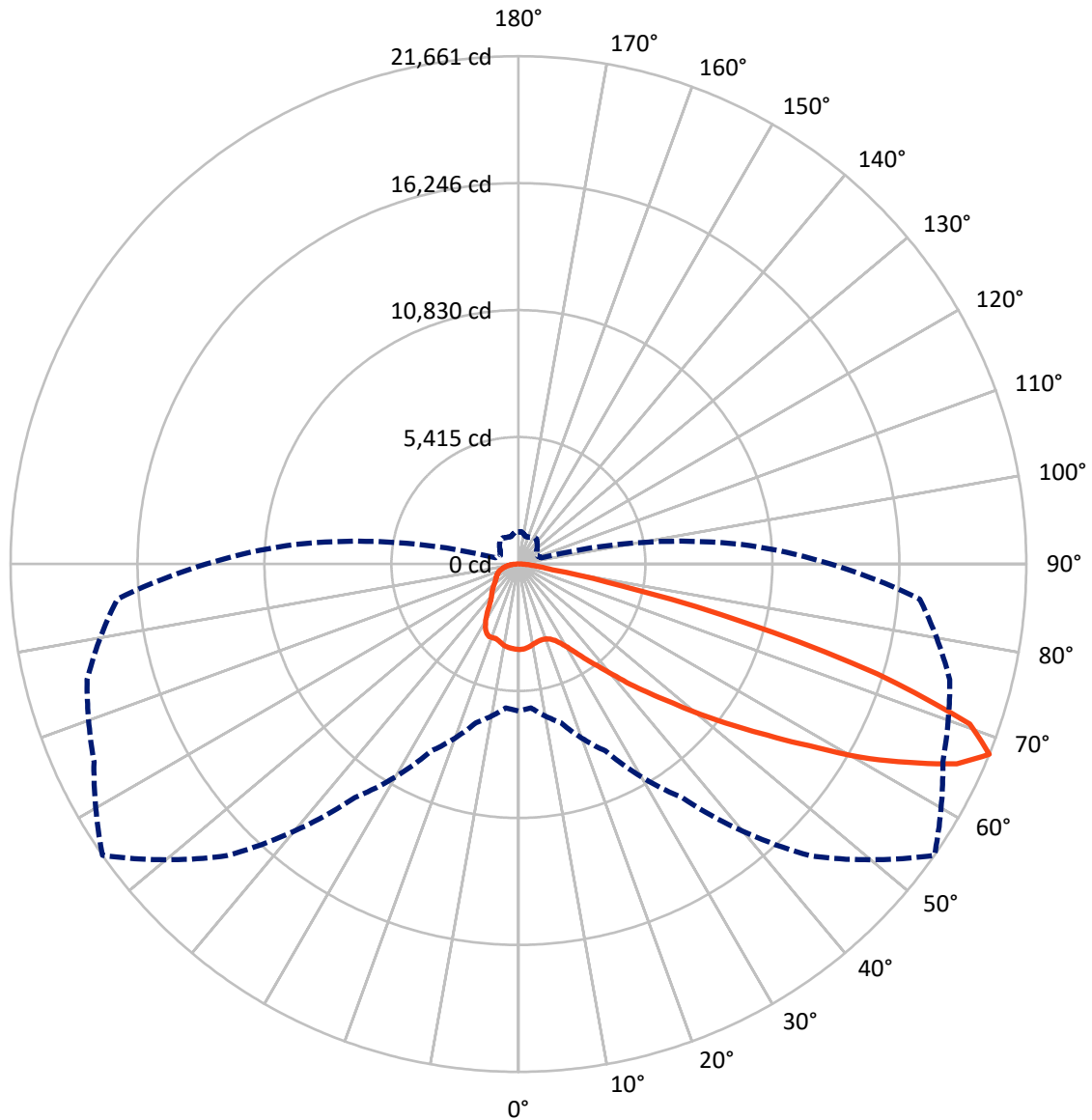
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6385.6	0.0	6385.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	23174.6	0.0	23174.6
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	29560.3	0.0	29560.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.2	1.2
10°-20°	963.6	3.3
20°-30°	1614.1	5.5
30°-40°	2654.3	9.0
40°-50°	4468.0	15.1
50°-60°	7032.4	23.8
60°-70°	8392.4	28.4
70°-80°	3603.8	12.2
80°-90°	491.3	1.7
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°	29560.3	100.0
0°-180°	29560.3	100.0



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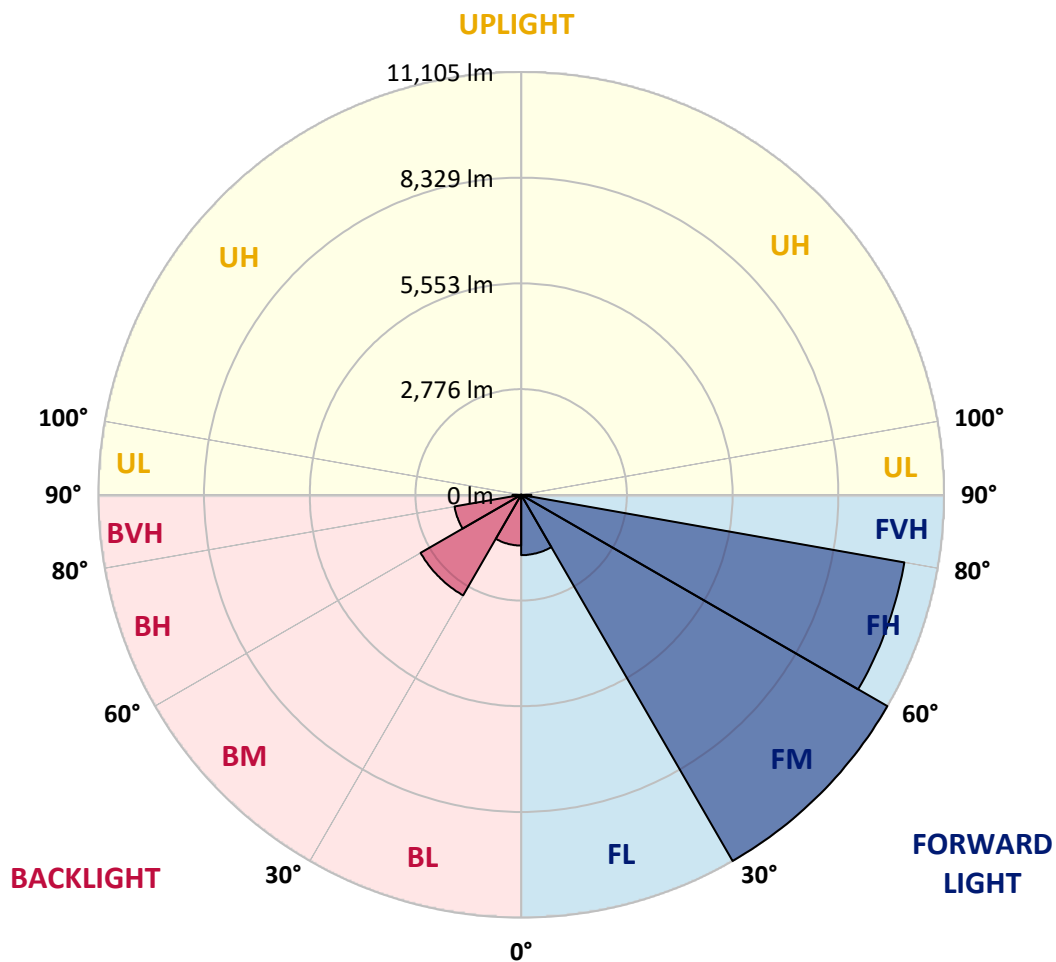
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1584.5	5.4			
FM	(30°-60°)	11105.0	37.6			
FH	(60°-80°)	10219.1	34.6			G4/12000
FVH	(80°-90°)	266.0	0.9			G3/500
BL	(0°-30°)	1333.4	4.5	B3/2500		
BM	(30°-60°)	3049.7	10.3	B3/5000		
BH	(60°-80°)	1777.1	6.0	B3/2500		G3/2500
BVH	(80°-90°)	225.4	0.8			G3/500
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°	85°	90°
0°	3645.1	3645.1	3645.1	3645.1	3645.1	3645.1	3645.1	3645.1	3645.1	3645.1	3645.1
2.5°	3613.7	3615.0	3618.0	3629.4	3639.5	3636.6	3638.0	3632.2	3630.8	3622.2	3630.8
5°	3568.0	3572.3	3573.6	3592.3	3603.7	3606.5	3602.3	3595.1	3586.6	3577.9	3582.4
7.5°	3463.8	3475.3	3476.6	3502.3	3520.8	3545.2	3546.6	3548.0	3543.8	3538.1	3546.6
10°	3398.1	3401.0	3399.5	3418.1	3432.3	3459.6	3475.3	3502.3	3513.7	3516.7	3522.3
12.5°	3393.7	3390.9	3386.7	3386.7	3382.4	3393.7	3422.4	3460.9	3488.1	3496.7	3503.7
15°	3439.5	3438.1	3423.8	3402.4	3375.2	3366.7	3390.9	3433.9	3469.4	3488.1	3495.1
17.5°	3542.2	3533.8	3510.8	3462.3	3403.8	3381.0	3383.8	3419.5	3460.9	3485.2	3492.3
20°	3730.8	3730.8	3682.2	3590.9	3486.6	3432.3	3406.6	3428.1	3468.0	3501.0	3510.8
22.5°	4056.2	4059.1	3977.8	3827.9	3652.2	3536.5	3472.4	3468.0	3515.2	3552.3	3563.8
25°	4517.4	4506.1	4391.9	4177.7	3910.7	3719.3	3608.0	3582.4	3622.2	3663.6	3677.9
27.5°	5054.4	5012.9	4877.3	4618.8	4273.3	3993.4	3822.2	3780.7	3819.4	3866.5	3880.7
30°	5585.4	5542.6	5381.2	5098.6	4714.6	4360.5	4114.9	4047.8	4102.0	4169.2	4177.7
32.5°	6116.6	6116.6	5936.7	5607.0	5188.5	4798.7	4504.6	4424.7	4514.6	4596.0	4614.6
35°	6751.9	6754.7	6580.7	6183.8	5733.9	5321.3	4997.2	4938.6	5074.3	5131.4	5175.7
37.5°	7532.9	7548.6	7324.5	6844.7	6352.2	5918.2	5532.7	5452.6	5588.3	5743.9	5886.8
40°	8376.8	8396.7	8149.8	7558.6	7066.1	6612.1	6195.2	6051.0	6276.5	6573.4	6757.6
42.5°	9181.9	9284.8	9046.4	8438.0	7908.4	7438.7	7016.1	6806.2	7088.9	7537.1	7697.0
45°	10345.6	10419.9	10004.5	9453.3	8955.1	8429.5	7870.0	7648.6	8044.1	8609.4	8642.4
47.5°	11120.8	11065.2	10854.0	10511.2	10195.8	9704.6	8862.1	8619.4	9144.8	9810.2	9626.1
50°	11533.6	11550.6	11522.1	11542.1	11553.6	11245.2	10078.7	9746.0	10372.8	11176.6	10752.5
52.5°	11919.0	11804.8	11899.0	12367.3	12932.8	12818.5	11402.1	11055.3	11689.1	12693.0	11943.3
55°	11910.4	11736.3	12043.2	12869.9	14096.5	14227.7	12888.5	12488.7	13081.3	14319.2	13205.4
57.5°	11489.3	11497.9	11970.5	13052.7	14907.4	15552.7	14613.3	14013.6	14557.6	15966.7	14357.7
60°	10909.6	10988.2	11669.3	13022.6	15556.9	16639.2	16729.2	15657.0	16003.9	17464.5	15311.4
62.5°	9974.4	10057.2	10996.7	12711.5	15458.6	17685.8	18642.4	17521.6	17516.0	18372.6	15591.3
65°	8499.6	8475.2	9461.8	11547.8	14631.9	18459.7	20542.8	19133.5	18655.3	18386.9	15028.7
67.5°	6268.0	6159.4	7006.2	8795.0	12161.8	17593.0	21660.7	19973.2	19043.6	17177.5	13309.6
70°	3252.5	3144.0	3829.3	5135.7	7998.4	13731.0	20422.8	19539.0	18185.6	14399.1	10427.0
72.5°	1390.7	1372.2	1650.5	2252.9	3869.3	7919.8	16013.8	16912.0	15604.1	10728.3	7168.8
75°	935.1	929.4	1033.7	1228.0	1740.5	3214.0	10021.5	12004.7	11416.5	6651.9	4032.0
77.5°	733.8	726.6	788.2	882.3	1127.9	1267.9	4447.5	6445.0	5965.3	2895.5	1764.7
80°	573.9	568.3	606.9	658.2	811.0	799.5	1463.5	2564.3	1984.5	1109.3	858.2
82.5°	452.6	452.6	483.9	485.4	575.4	545.5	763.9	1129.3	990.9	646.8	525.4
85°	414.1	414.1	446.8	362.6	375.5	344.1	474.0	669.6	628.3	265.5	228.4
87.5°	208.4	202.7	375.5	321.2	204.2	182.7	231.4	324.1	348.4	147.1	114.3
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3645.1	3645.1	3645.1	3645.1	3645.1	3645.1	3645.1	3645.1	3645.1	3645.1
2.5°	3628.0	3626.5	3629.4	3630.8	3642.3	3658.0	3665.1	3675.1	3680.7	3677.9
5°	3585.1	3588.0	3599.4	3608.0	3628.0	3653.6	3668.0	3679.4	3689.3	3685.0
7.5°	3549.5	3556.6	3573.6	3580.9	3592.3	3599.4	3598.0	3602.3	3610.8	3600.9
10°	3529.4	3538.1	3550.9	3540.8	3513.7	3475.3	3439.5	3420.9	3426.7	3419.5
12.5°	3509.5	3520.8	3510.8	3463.8	3388.0	3338.1	3311.1	3313.8	3326.8	3329.6
15°	3498.0	3502.3	3459.6	3371.0	3293.8	3286.7	3301.0	3298.1	3299.6	3299.6
17.5°	3498.0	3486.6	3406.6	3318.1	3285.3	3272.4	3228.1	3172.5	3148.2	3139.7
20°	3516.7	3486.6	3389.6	3330.9	3259.6	3149.6	3032.6	2929.8	2884.1	2871.3
22.5°	3572.3	3520.8	3438.1	3336.8	3133.9	2949.8	2764.2	2641.3	2558.6	2544.3
25°	3685.0	3628.0	3533.8	3261.0	2934.0	2671.4	2460.1	2322.9	2240.2	2228.8
27.5°	3882.1	3844.9	3585.1	3094.0	2668.5	2387.2	2191.7	2086.0	2024.6	2020.3
30°	4179.1	4160.5	3559.4	2847.0	2341.5	2111.6	2017.5	1956.1	1910.3	1908.9
32.5°	4653.1	4503.3	3475.3	2545.7	2043.1	1916.1	1877.5	1840.4	1804.8	1804.8
35°	5262.8	4780.2	3315.3	2223.0	1861.7	1807.6	1759.1	1700.5	1653.4	1650.5
37.5°	5979.5	4951.5	3028.2	1963.2	1776.2	1734.7	1663.3	1576.3	1493.4	1479.1
40°	6703.4	5002.9	2624.3	1803.3	1722.0	1662.0	1574.8	1472.1	1392.1	1387.8
42.5°	7367.3	4904.3	2195.8	1693.3	1667.7	1587.7	1496.2	1404.9	1342.1	1340.7
45°	7924.0	4648.8	1836.1	1589.1	1610.5	1520.7	1439.2	1365.0	1316.3	1306.5
47.5°	8448.1	4287.6	1583.4	1479.1	1553.3	1483.5	1414.9	1344.9	1297.8	1290.8
50°	9056.4	3897.8	1406.3	1372.2	1503.5	1470.6	1435.0	1362.1	1283.6	1275.1
52.5°	9793.1	3560.9	1267.9	1277.8	1464.9	1487.8	1486.3	1410.7	1273.5	1262.2
55°	10615.5	3186.7	1163.7	1200.8	1449.1	1519.2	1499.1	1456.3	1282.2	1265.1
57.5°	11425.1	2749.9	1090.8	1142.3	1426.4	1516.2	1437.7	1376.4	1302.2	1277.8
60°	12031.9	2163.1	1035.1	1090.8	1376.4	1469.2	1370.6	1289.2	1297.8	1279.2
62.5°	12071.9	1671.9	968.1	1046.5	1300.7	1422.0	1326.3	1250.7	1316.3	1299.3
65°	11362.2	1263.6	903.8	993.7	1219.3	1392.1	1283.6	1229.3	1355.0	1336.4
67.5°	9566.1	1016.6	849.5	939.4	1138.0	1329.2	1245.1	1209.3	1389.1	1356.4
70°	6906.1	866.7	796.6	873.8	1065.1	1257.8	1210.7	1173.6	1296.4	1245.1
72.5°	4251.9	751.1	736.7	786.6	1009.4	1183.6	1159.4	1106.5	1167.9	1126.6
75°	2123.1	651.0	669.6	701.0	931.0	1099.3	1073.7	1020.8	1029.4	1020.8
77.5°	1016.6	556.8	591.2	615.3	829.6	1003.8	976.5	922.3	912.4	913.8
80°	643.9	465.4	498.3	515.4	741.0	892.3	865.2	811.0	925.3	858.2
82.5°	402.6	378.4	386.9	418.3	645.3	776.8	741.0	692.5	833.8	659.6
85°	222.7	264.1	275.6	302.6	496.9	649.7	613.9	552.5	495.4	486.9
87.5°	132.8	157.1	161.3	181.3	334.1	469.8	415.5	394.0	327.0	325.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)