

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: P269678

Luminaire Tested: **GLEON-AF-09-LED-E1-T4W-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30248.3 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

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

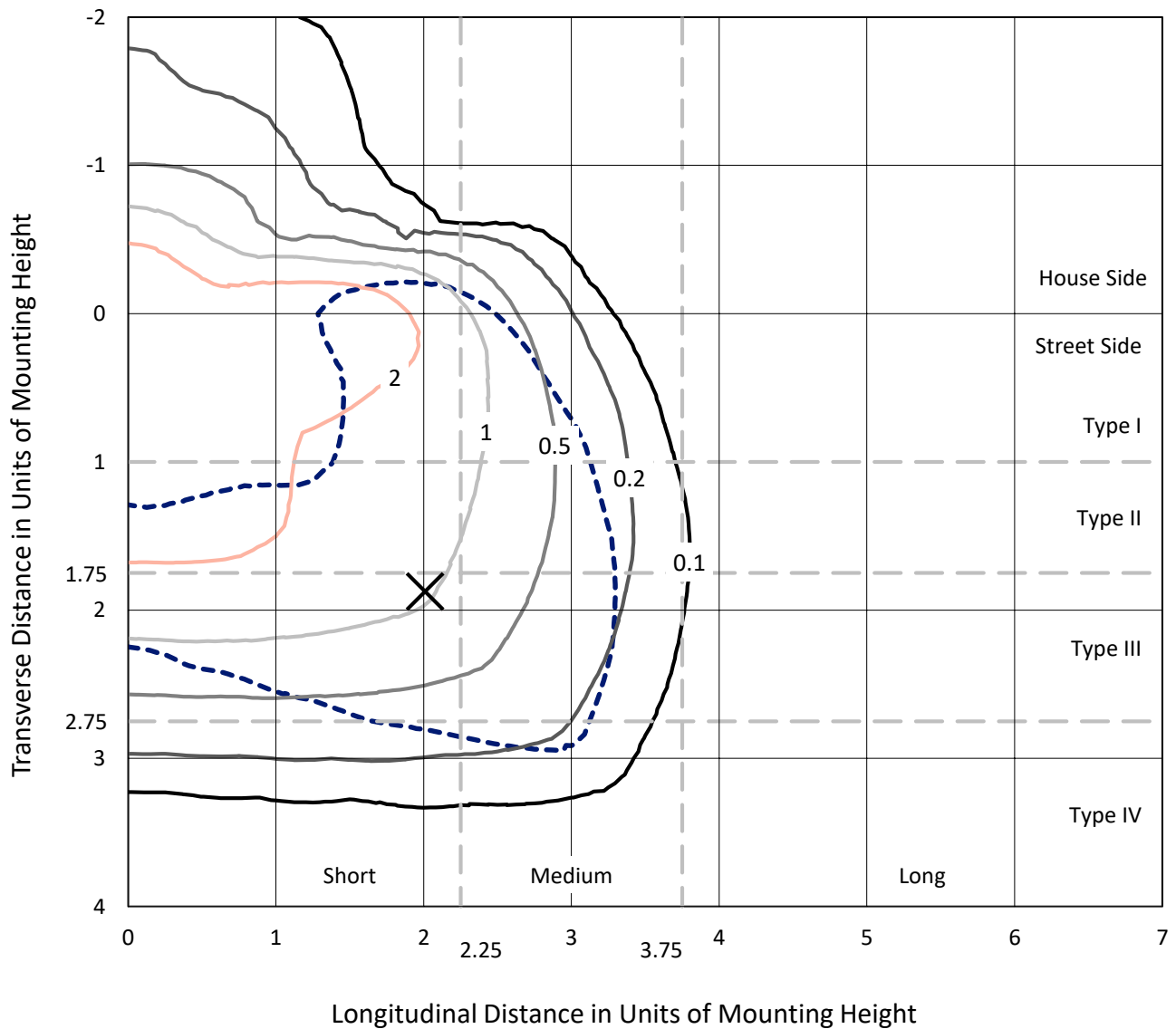


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

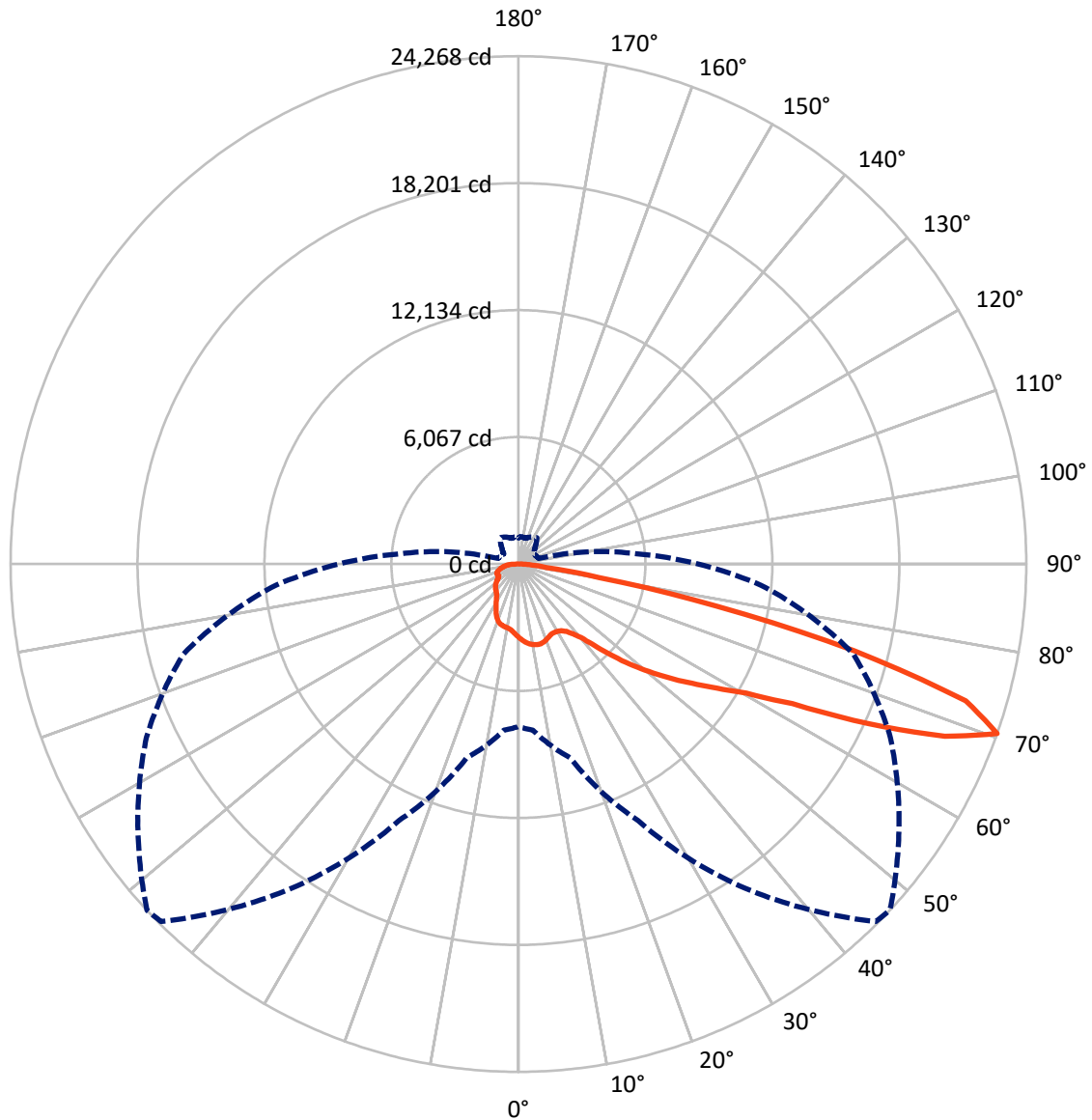


Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6310.4	0.0	6310.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	23937.9	0.0	23937.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	30248.3	0.0	30248.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.3	1.1
10°-20°	986.6	3.3
20°-30°	1456.9	4.8
30°-40°	2117.6	7.0
40°-50°	3811.0	12.6
50°-60°	6602.1	21.8
60°-70°	9423.1	31.2
70°-80°	4837.3	16.0
80°-90°	677.2	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°	30248.3	100.0
0°-180°	30248.3	100.0



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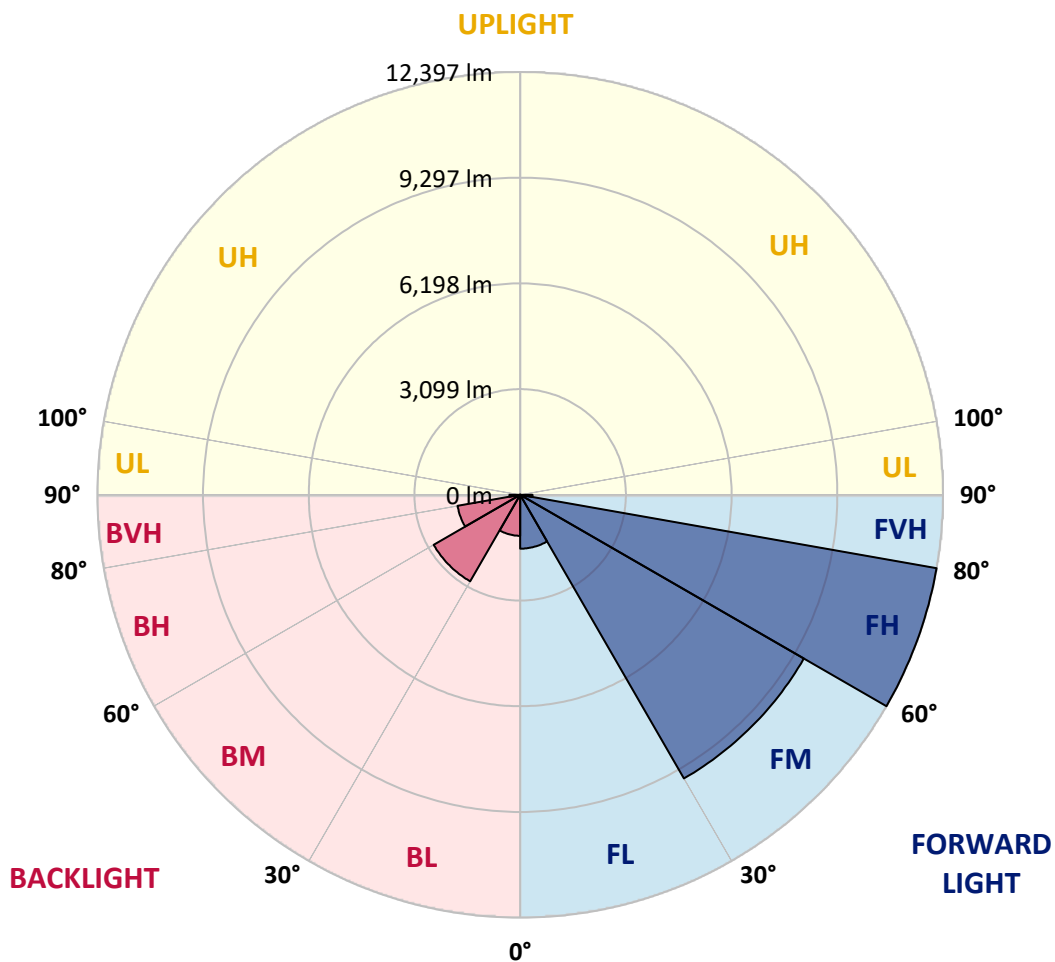
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1578.3	5.2			
FM	(30°-60°)	9601.7	31.7			
FH	(60°-80°)	12396.6	41.0			G5
FVH	(80°-90°)	361.4	1.2			G3/500
BL	(0°-30°)	1201.5	4.0	B3/2500		
BM	(30°-60°)	2929.1	9.7	B3/5000		
BH	(60°-80°)	1863.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	315.9	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8
2.5°	3715.7	3708.5	3705.5	3699.6	3692.3	3655.5	3648.0	3621.5	3584.7	3546.5	3506.9
5°	3960.1	3958.7	3942.4	3912.9	3865.9	3784.9	3765.9	3701.0	3614.2	3530.3	3446.4
7.5°	4175.0	4161.7	4130.8	4071.8	3989.6	3879.2	3852.7	3762.9	3643.6	3528.9	3415.5
10°	4332.3	4325.0	4257.2	4176.4	4069.0	3946.9	3915.9	3815.8	3684.8	3539.2	3397.8
12.5°	4422.1	4407.4	4329.4	4232.3	4104.3	3985.2	3954.2	3852.7	3705.5	3539.2	3372.9
15°	4416.2	4405.9	4327.9	4222.0	4092.5	3988.0	3960.1	3858.5	3701.0	3524.5	3340.4
17.5°	4298.5	4302.9	4236.6	4132.3	4026.3	3946.9	3921.8	3827.6	3671.6	3495.0	3302.3
20°	4092.5	4113.1	4069.0	3976.3	3917.4	3862.9	3846.7	3767.3	3626.0	3452.4	3261.0
22.5°	3886.4	3905.7	3888.0	3809.9	3801.1	3768.7	3759.9	3702.5	3586.3	3425.9	3236.1
25°	3735.0	3752.6	3749.6	3682.0	3708.5	3706.9	3699.6	3671.6	3577.4	3425.9	3240.5
27.5°	3693.7	3699.6	3693.7	3631.8	3668.7	3698.1	3692.3	3687.8	3603.9	3468.5	3296.4
30°	3835.0	3826.2	3780.4	3655.5	3689.2	3730.5	3724.6	3727.5	3683.4	3580.4	3421.5
32.5°	4398.6	4358.8	4214.7	3862.9	3773.2	3795.2	3798.2	3846.7	3854.1	3752.6	3615.7
35°	5241.8	5197.7	5010.7	4419.2	4033.6	3957.2	3957.2	4030.6	4074.8	3999.8	3917.4
37.5°	6135.1	6086.5	5986.5	5190.2	4581.0	4238.2	4230.7	4282.3	4345.6	4363.2	4383.9
40°	7150.5	7098.9	7127.0	6055.6	5344.8	4725.3	4620.8	4584.1	4754.6	4868.1	5032.8
42.5°	8261.5	8237.9	8248.2	7019.4	6214.6	5453.7	5305.1	5115.3	5321.3	5522.9	5868.6
45°	9290.1	9310.8	9300.4	8051.1	7182.8	6342.6	6185.1	5817.2	6018.9	6364.6	6928.3
47.5°	10190.7	10105.5	10237.9	9178.3	8267.5	7337.4	7143.1	6650.2	6854.6	7281.4	8235.0
50°	11284.1	11272.4	11078.1	10682.3	9578.5	8336.6	8082.1	7511.0	7828.9	8421.9	9881.7
52.5°	12433.5	12220.1	12042.0	11852.1	10969.3	9360.8	9048.7	8368.9	8973.8	9719.8	11889.0
55°	12668.9	12573.2	12794.0	13113.4	12309.8	10424.7	10061.2	9444.7	10262.9	11203.2	14203.8
57.5°	13172.1	13170.7	13626.8	14196.5	13690.2	11553.5	11187.0	10744.1	11712.5	12903.0	16661.4
60°	13512.1	13607.7	14455.4	15560.6	15045.5	12857.4	12520.2	12243.5	13360.6	14802.7	18951.2
62.5°	13690.2	13819.6	14976.4	16113.8	16961.5	15027.8	14690.9	14292.0	15541.4	16886.5	20290.2
65°	12950.0	13204.5	14895.4	16592.1	18639.1	18546.4	18394.9	17694.5	18268.3	18533.2	19806.1
67.5°	10901.6	11162.0	13131.1	16146.2	19837.0	21939.9	21972.4	20775.9	19946.0	18674.4	16652.5
70°	7767.0	7971.6	9600.6	13537.2	18924.7	24157.6	24268.0	22196.0	19611.8	16561.2	11634.4
72.5°	3687.8	3812.9	5355.2	8810.3	15017.5	22134.1	22347.6	20383.0	16676.0	12261.2	6347.0
75°	1355.4	1393.6	1810.1	3748.2	8710.3	16322.9	16574.4	14611.4	11054.6	6104.2	2417.8
77.5°	812.2	837.3	1015.4	1581.9	3425.9	9329.8	9702.2	7946.5	4831.3	2272.2	1189.0
80°	568.1	585.6	728.4	984.5	1618.7	3555.3	3886.4	3243.4	1924.9	1437.7	865.2
82.5°	384.0	392.9	512.2	665.1	1075.7	1269.9	1370.0	1442.1	1298.0	1069.8	549.0
85°	251.6	260.5	347.3	438.6	684.2	656.3	671.0	849.1	947.7	727.0	304.6
87.5°	144.2	150.0	208.9	234.0	335.5	278.1	281.1	447.4	606.3	490.0	185.4
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°	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8
2.5°	3496.6	3477.3	3434.7	3408.2	3383.1	3377.3	3366.9	3365.5	3364.1	3364.1	3359.7
5°	3418.5	3386.2	3319.9	3283.1	3252.3	3249.3	3247.8	3255.2	3258.2	3261.0	3256.6
7.5°	3368.5	3324.3	3242.0	3189.0	3152.2	3143.3	3158.0	3191.9	3214.0	3222.8	3218.4
10°	3337.6	3283.1	3187.5	3130.1	3099.2	3094.8	3113.9	3153.6	3199.3	3216.9	3215.5
12.5°	3302.3	3240.5	3138.9	3078.6	3061.0	3069.8	3094.8	3131.5	3178.7	3206.6	3208.0
15°	3267.0	3194.8	3090.3	3037.3	3030.1	3041.8	3065.3	3093.3	3130.1	3158.0	3161.0
17.5°	3224.2	3149.2	3044.7	2990.3	2984.3	2990.3	2991.7	3006.4	3030.1	3056.6	3063.8
20°	3178.7	3102.0	2993.2	2938.7	2912.2	2888.7	2862.2	2865.1	2872.5	2899.0	2904.8
22.5°	3146.3	3069.8	2953.4	2878.3	2807.8	2737.1	2684.1	2676.8	2679.7	2701.8	2709.2
25°	3149.2	3068.3	2943.1	2813.8	2659.2	2545.8	2475.2	2463.4	2462.0	2478.2	2488.5
27.5°	3206.6	3125.7	2981.5	2747.5	2497.3	2329.6	2254.4	2245.7	2233.8	2238.2	2250.1
30°	3334.6	3259.6	3074.2	2679.7	2322.2	2117.7	2039.6	2030.8	2014.5	2007.3	2016.1
32.5°	3543.5	3481.8	3209.6	2615.1	2147.0	1936.7	1857.2	1838.0	1827.7	1818.9	1826.3
35°	3890.9	3864.4	3390.6	2544.4	1992.5	1796.8	1724.7	1695.3	1680.5	1696.8	1708.5
37.5°	4435.4	4450.2	3627.4	2434.0	1873.3	1704.2	1643.8	1609.9	1587.8	1601.0	1614.3
40°	5206.4	5216.7	3889.4	2278.0	1770.3	1649.6	1584.9	1554.0	1523.0	1499.5	1498.1
42.5°	6219.0	6114.5	4146.9	2108.9	1651.2	1615.8	1543.6	1505.4	1458.4	1393.6	1380.3
45°	7419.8	7053.3	4342.6	1914.6	1517.1	1574.5	1498.1	1445.2	1371.5	1300.8	1293.5
47.5°	8803.0	8061.4	4438.3	1713.0	1392.2	1514.3	1442.1	1358.2	1265.5	1230.3	1225.8
50°	10492.5	9257.8	4483.9	1517.1	1283.1	1434.9	1361.2	1262.6	1184.7	1177.3	1172.8
52.5°	12415.8	10696.9	4498.6	1356.8	1193.5	1331.7	1294.9	1199.3	1137.6	1143.5	1143.5
55°	14428.9	12183.4	4298.5	1240.6	1111.1	1225.8	1250.9	1174.4	1122.8	1146.3	1155.2
57.5°	16277.3	13500.4	3668.7	1150.8	1033.1	1144.9	1234.7	1197.9	1162.5	1258.2	1264.0
60°	17695.9	14278.7	2740.1	1069.8	975.6	1117.0	1277.3	1287.6	1296.4	1524.6	1555.4
62.5°	17993.1	14019.8	1883.7	1006.6	949.1	1140.5	1355.4	1356.8	1346.5	1505.4	1524.6
65°	16629.0	12382.0	1370.0	971.2	927.1	1183.2	1421.6	1390.7	1322.9	1443.7	1408.4
67.5°	13206.1	9328.4	1140.5	944.7	894.7	1180.3	1492.2	1421.6	1309.6	1414.2	1356.8
70°	8571.9	5640.5	1015.4	922.6	856.4	1124.3	1533.3	1418.7	1271.5	1315.6	1247.9
72.5°	4182.2	2522.4	931.5	890.3	816.6	1046.3	1531.9	1392.2	1231.8	1228.8	1192.1
75°	1636.4	1155.2	854.9	841.7	749.0	958.0	1490.6	1353.8	1184.7	1137.6	1124.3
77.5°	958.0	824.0	757.9	769.7	668.1	869.6	1430.5	1287.6	1119.8	1064.0	1049.2
80°	697.5	616.5	646.1	665.1	571.1	781.4	1349.4	1206.8	1047.8	1075.7	1055.1
82.5°	447.4	397.3	523.9	543.0	475.4	691.6	1261.1	1121.4	946.3	859.4	838.7
85°	228.1	251.6	390.0	413.5	366.4	568.1	1153.8	1008.1	831.4	715.2	727.0
87.5°	128.0	172.1	248.7	278.1	259.0	437.0	935.9	831.4	678.4	551.9	485.7
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)