

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: P191564

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191564
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-06-LED-E1-T4W-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29217.5 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

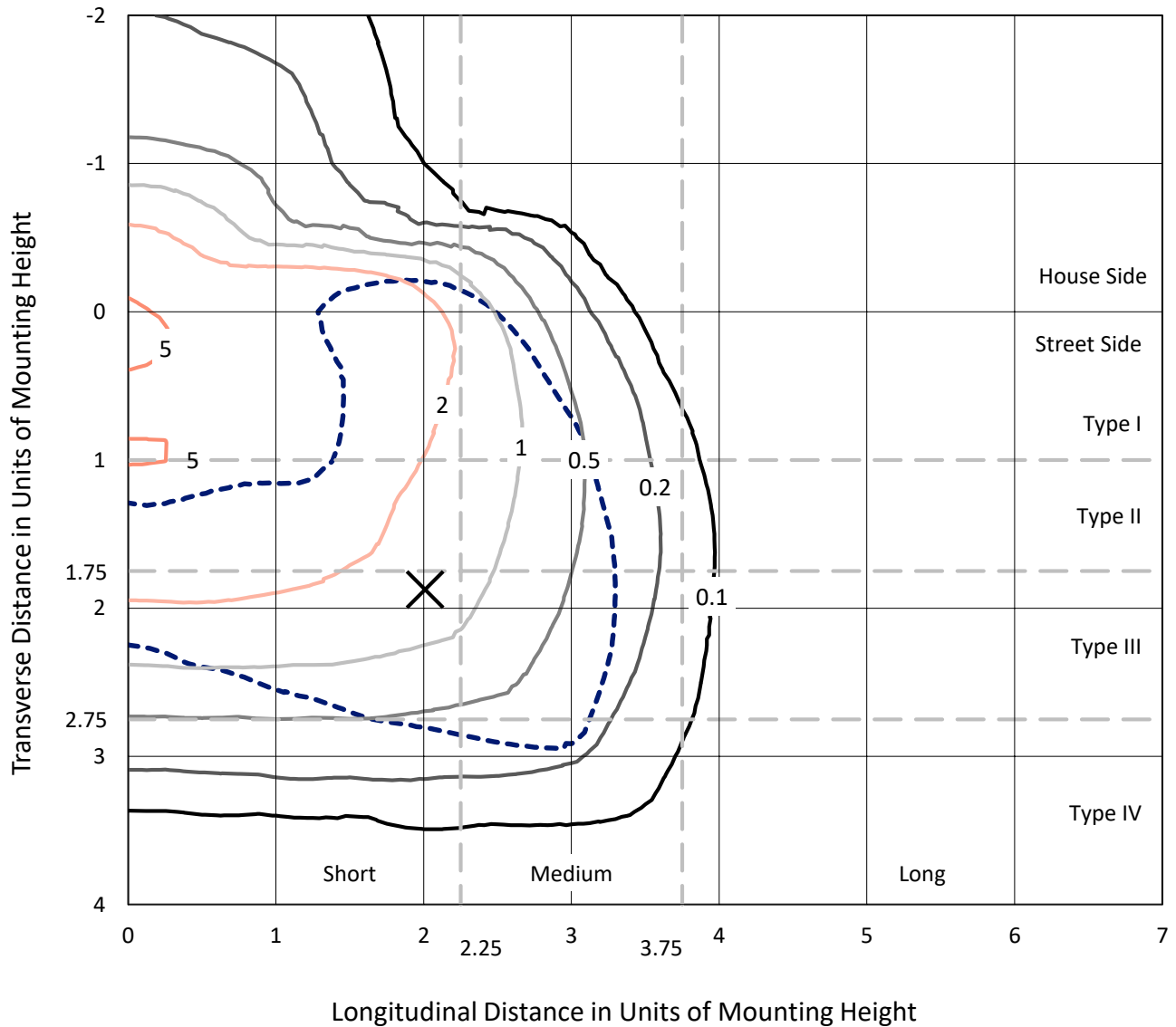
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

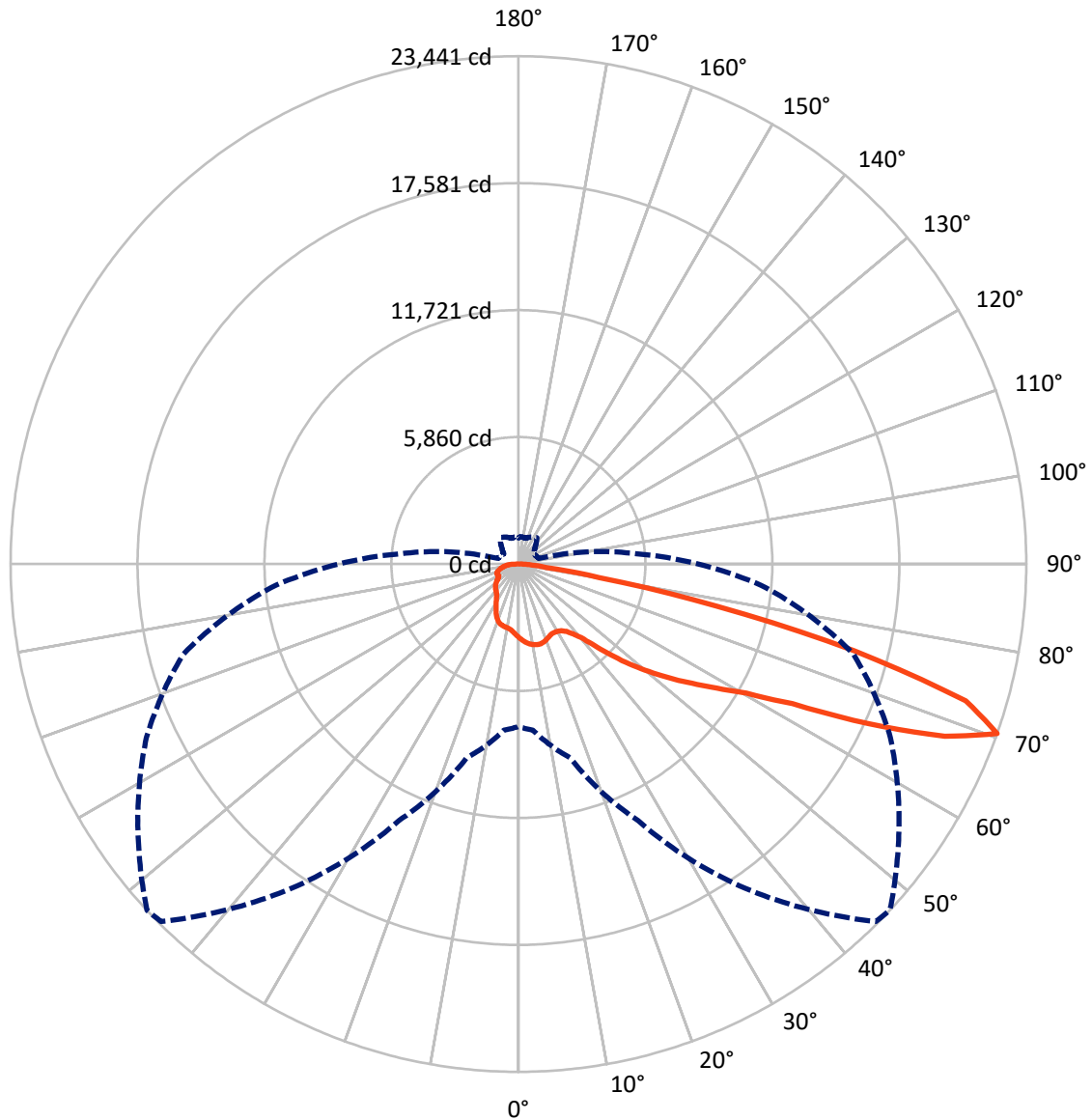
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	6095.4	0.0	6095.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	23122.2	0.0	23122.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	29217.5	0.0	29217.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	1.1
10°-20°	953.0	3.3
20°-30°	1407.3	4.8
30°-40°	2045.5	7.0
40°-50°	3681.1	12.6
50°-60°	6377.2	21.8
60°-70°	9102.0	31.2
70°-80°	4672.5	16.0
80°-90°	654.2	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°	29217.5	100.0
0°-180°	29217.5	100.0



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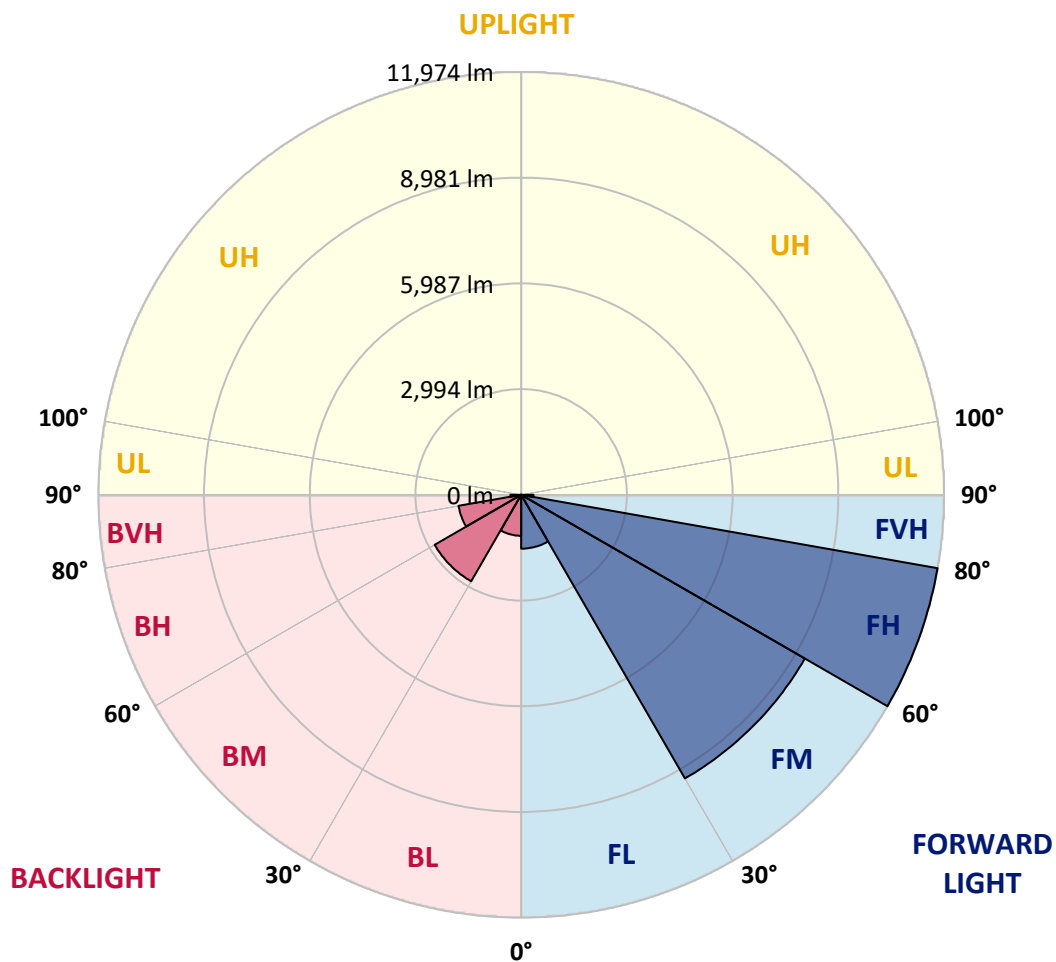
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1524.5	5.2			
FM	(30°-60°)	9274.5	31.7			
FH	(60°-80°)	11974.1	41.0			G4/12000
FVH	(80°-90°)	349.1	1.2			G3/500
BL	(0°-30°)	1160.6	4.0	B3/2500		
BM	(30°-60°)	2829.3	9.7	B3/5000		
BH	(60°-80°)	1800.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	305.1	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2
2.5°	3589.1	3582.1	3579.2	3573.5	3566.4	3530.8	3523.8	3498.2	3462.6	3425.7	3387.3
5°	3825.1	3823.7	3808.0	3779.6	3734.2	3655.9	3637.5	3574.9	3491.0	3410.0	3329.0
7.5°	4032.7	4019.9	3990.0	3933.1	3853.6	3747.0	3721.3	3634.6	3519.5	3408.6	3299.1
10°	4184.7	4177.6	4112.3	4034.0	3930.3	3812.3	3782.5	3685.8	3559.3	3418.6	3282.1
12.5°	4271.4	4257.2	4181.9	4088.1	3964.4	3849.3	3819.4	3721.3	3579.2	3418.6	3258.0
15°	4265.7	4255.8	4180.5	4078.1	3953.0	3852.1	3825.1	3727.0	3574.9	3404.4	3226.7
17.5°	4152.1	4156.2	4092.3	3991.5	3889.1	3812.3	3788.2	3697.1	3546.5	3375.9	3189.8
20°	3953.0	3972.9	3930.3	3840.8	3783.9	3731.3	3715.7	3638.9	3502.5	3334.7	3149.9
22.5°	3754.0	3772.5	3755.5	3680.1	3671.6	3640.3	3631.8	3576.3	3464.0	3309.1	3125.7
25°	3607.6	3624.7	3621.9	3556.5	3582.1	3580.6	3573.5	3546.5	3455.5	3309.1	3130.0
27.5°	3567.8	3573.5	3567.8	3508.1	3543.7	3572.0	3566.4	3562.1	3481.1	3350.4	3184.0
30°	3704.3	3695.7	3651.7	3530.8	3563.6	3603.3	3597.7	3600.5	3557.8	3458.4	3304.8
32.5°	4248.7	4210.4	4071.0	3731.3	3644.6	3665.9	3668.7	3715.7	3722.7	3624.7	3492.5
35°	5063.2	5020.5	4840.0	4268.6	3896.2	3822.3	3822.3	3893.4	3936.0	3863.5	3783.9
37.5°	5926.0	5879.1	5782.4	5013.4	4425.0	4093.7	4086.7	4136.4	4197.5	4214.6	4234.5
40°	6906.8	6857.0	6884.0	5849.2	5162.7	4564.3	4463.3	4427.8	4592.6	4702.1	4861.4
42.5°	7979.9	7957.2	7967.2	6780.3	6002.8	5267.9	5124.3	4941.0	5139.9	5334.7	5668.7
45°	8973.5	8993.5	8983.6	7776.7	6938.1	6126.5	5974.3	5619.0	5813.7	6147.7	6692.1
47.5°	9843.4	9761.1	9889.0	8865.5	7985.7	7087.3	6899.7	6423.5	6621.0	7033.3	7954.4
50°	10899.6	10888.3	10700.6	10318.3	9252.2	8052.5	7806.5	7255.1	7562.1	8134.9	9544.9
52.5°	12009.7	11803.6	11631.7	11448.4	10595.4	9041.8	8740.5	8083.8	8668.0	9388.6	11483.9
55°	12237.3	12144.8	12358.1	12666.5	11890.4	10069.5	9718.4	9122.8	9913.1	10821.5	13719.8
57.5°	12723.4	12721.9	13162.6	13712.7	13223.7	11159.8	10805.8	10377.9	11313.2	12463.2	16093.6
60°	13051.7	13144.1	13962.9	15030.3	14532.9	12419.1	12093.6	11826.4	12905.2	14298.3	18305.3
62.5°	13223.7	13348.8	14466.1	15564.8	16383.6	14515.8	14190.3	13805.0	15011.9	16311.1	19598.8
65°	12508.7	12754.6	14387.8	16026.8	18004.0	17914.4	17768.0	17091.5	17645.8	17901.6	19131.2
67.5°	10530.1	10781.7	12683.6	15596.1	19161.1	21192.3	21223.6	20067.9	19266.3	18038.1	16085.1
70°	7502.4	7700.0	9273.5	13075.9	18279.7	23334.4	23441.0	21439.6	18943.6	15996.9	11237.9
72.5°	3562.1	3682.9	5172.7	8510.1	14505.9	21379.9	21586.0	19688.4	16107.8	11843.4	6130.6
75°	1309.2	1346.1	1748.3	3620.4	8413.6	15766.6	16009.7	14113.6	10677.9	5896.2	2335.4
77.5°	784.6	808.8	980.8	1528.1	3309.1	9012.0	9371.6	7675.8	4666.6	2194.7	1148.6
80°	548.7	565.7	703.6	950.9	1563.6	3434.3	3754.0	3132.9	1859.2	1388.8	835.9
82.5°	371.0	379.5	494.7	642.5	1039.1	1226.7	1323.4	1393.1	1253.7	1033.4	530.2
85°	243.1	251.6	335.4	423.6	660.9	633.9	648.1	820.2	915.4	702.2	294.2
87.5°	139.3	145.0	201.8	226.0	324.1	268.6	271.5	432.1	585.6	473.3	179.1
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°	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2	3390.2
2.5°	3377.4	3358.9	3317.6	3292.1	3267.9	3262.2	3252.3	3250.8	3249.4	3249.4	3245.1
5°	3302.0	3270.8	3206.7	3171.2	3141.4	3138.5	3137.1	3144.2	3147.1	3149.9	3145.7
7.5°	3253.7	3211.0	3131.5	3080.3	3044.7	3036.2	3050.4	3083.1	3104.5	3112.9	3108.6
10°	3223.8	3171.2	3078.9	3023.4	2993.6	2989.3	3007.8	3046.1	3090.2	3107.3	3105.9
12.5°	3189.8	3130.0	3031.9	2973.6	2956.6	2965.1	2989.3	3024.9	3070.3	3097.3	3098.7
15°	3155.6	3085.9	2985.1	2933.8	2926.8	2938.1	2960.8	2987.8	3023.4	3050.4	3053.3
17.5°	3114.4	3041.8	2941.0	2888.4	2882.7	2888.4	2889.8	2904.1	2926.8	2952.3	2959.4
20°	3070.3	2996.4	2891.2	2838.6	2813.0	2790.3	2764.7	2767.6	2774.7	2800.2	2806.0
22.5°	3039.1	2965.1	2852.8	2780.4	2712.1	2643.9	2592.7	2585.6	2588.5	2609.8	2616.9
25°	3041.8	2963.7	2842.9	2717.8	2568.5	2459.1	2390.8	2379.5	2378.1	2393.7	2403.6
27.5°	3097.3	3019.1	2879.8	2653.8	2412.2	2250.2	2177.7	2169.2	2157.7	2162.0	2173.4
30°	3221.0	3148.5	2969.4	2588.5	2243.0	2045.5	1970.1	1961.6	1946.0	1938.8	1947.4
32.5°	3422.8	3363.2	3100.2	2525.9	2073.9	1870.7	1793.8	1775.4	1765.4	1756.9	1764.0
35°	3758.3	3732.7	3275.0	2457.6	1924.7	1735.5	1666.0	1637.5	1623.3	1639.0	1650.3
37.5°	4284.2	4298.4	3503.8	2351.0	1809.5	1646.0	1587.7	1555.1	1533.7	1546.5	1559.3
40°	5029.0	5039.1	3756.9	2200.4	1710.0	1593.5	1530.8	1501.1	1471.2	1448.5	1447.1
42.5°	6007.0	5906.1	4005.7	2036.9	1594.9	1560.7	1491.1	1454.1	1408.6	1346.1	1333.3
45°	7166.9	6813.0	4194.7	1849.3	1465.5	1520.9	1447.1	1395.8	1324.8	1256.6	1249.4
47.5°	8503.1	7786.7	4287.1	1654.5	1344.7	1462.6	1393.1	1312.0	1222.4	1188.4	1184.1
50°	10134.9	8942.3	4331.2	1465.5	1239.5	1385.9	1314.8	1219.6	1144.3	1137.1	1132.9
52.5°	11992.7	10332.5	4345.4	1310.6	1152.8	1286.4	1250.9	1158.5	1098.8	1104.5	1104.5
55°	13937.3	11768.1	4152.1	1198.3	1073.2	1184.1	1208.2	1134.4	1084.5	1107.3	1115.8
57.5°	15722.5	13040.3	3543.7	1111.5	997.9	1105.9	1192.6	1157.1	1122.9	1215.4	1221.0
60°	17092.9	13792.2	2646.7	1033.4	942.4	1078.9	1233.8	1243.8	1252.3	1472.6	1502.5
62.5°	17380.0	13542.1	1819.4	972.3	916.9	1101.6	1309.2	1310.6	1300.6	1454.1	1472.6
65°	16062.3	11960.0	1323.4	938.1	895.5	1142.8	1373.1	1343.2	1277.9	1394.5	1360.3
67.5°	12756.0	9010.6	1101.6	912.6	864.2	1140.0	1441.3	1373.1	1265.1	1366.0	1310.6
70°	8279.9	5448.4	980.8	891.2	827.3	1086.0	1481.1	1370.2	1228.2	1270.8	1205.3
72.5°	4039.7	2436.4	899.8	860.0	788.9	1010.7	1479.7	1344.7	1189.8	1186.9	1151.3
75°	1580.7	1115.8	825.8	813.0	723.5	925.4	1439.9	1307.7	1144.3	1098.8	1086.0
77.5°	925.4	796.0	732.0	743.4	645.4	840.0	1381.6	1243.8	1081.7	1027.7	1013.5
80°	673.7	595.6	624.0	642.5	551.5	754.8	1303.4	1165.6	1012.1	1039.1	1019.2
82.5°	432.1	383.8	506.1	524.5	459.1	668.1	1218.1	1083.1	914.0	830.1	810.2
85°	220.3	243.1	376.7	399.5	353.9	548.7	1114.4	973.6	803.1	690.8	702.2
87.5°	123.7	166.3	240.2	268.6	250.2	422.2	904.1	803.1	655.3	533.1	469.1
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)