

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: P269674

Luminaire Tested: **GLEON-AF-09-LED-E1-T4FT-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269674
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-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 30644.8 lumens
Efficiency: N/A
Efficacy: 105.7 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 - 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

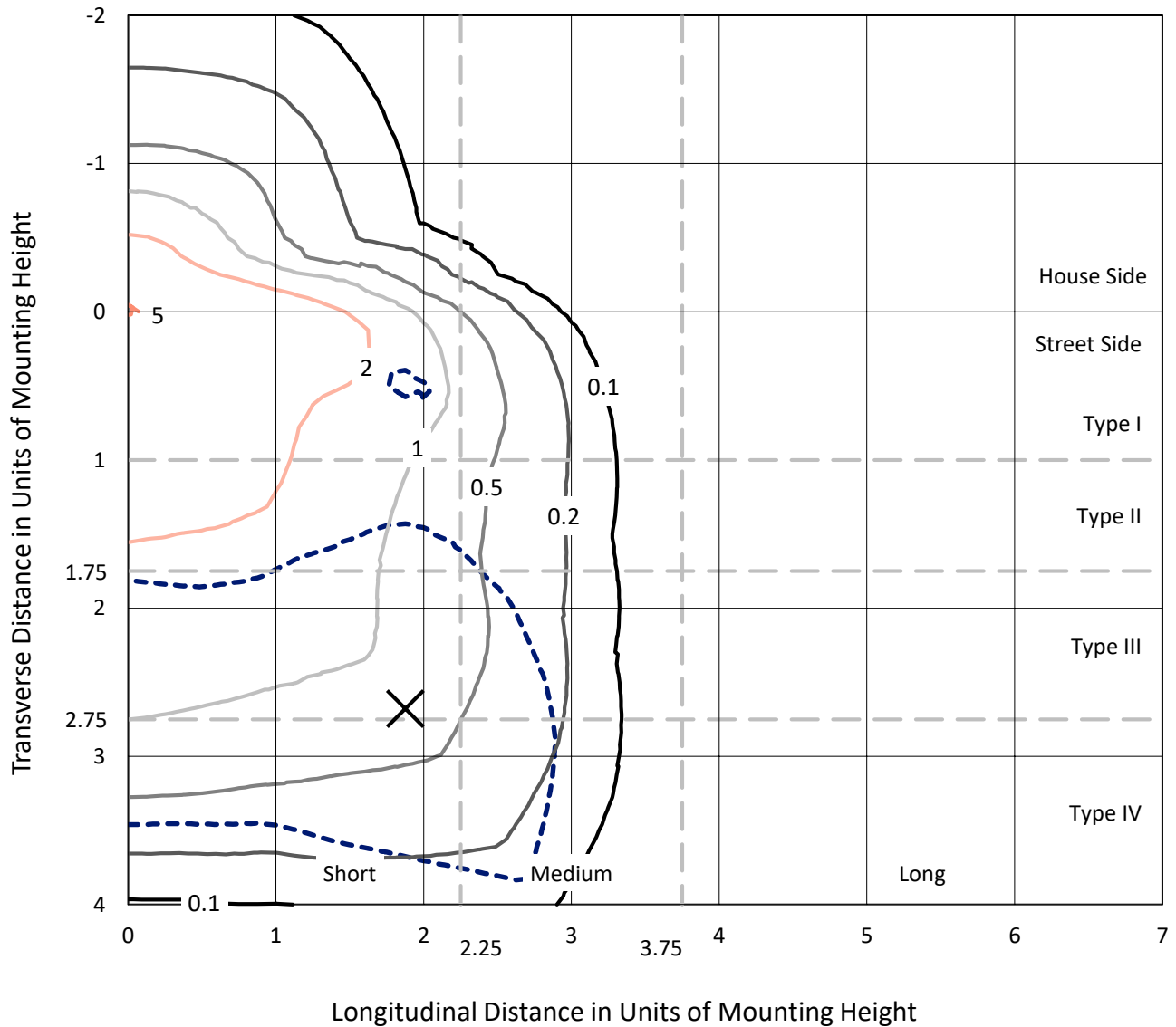


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

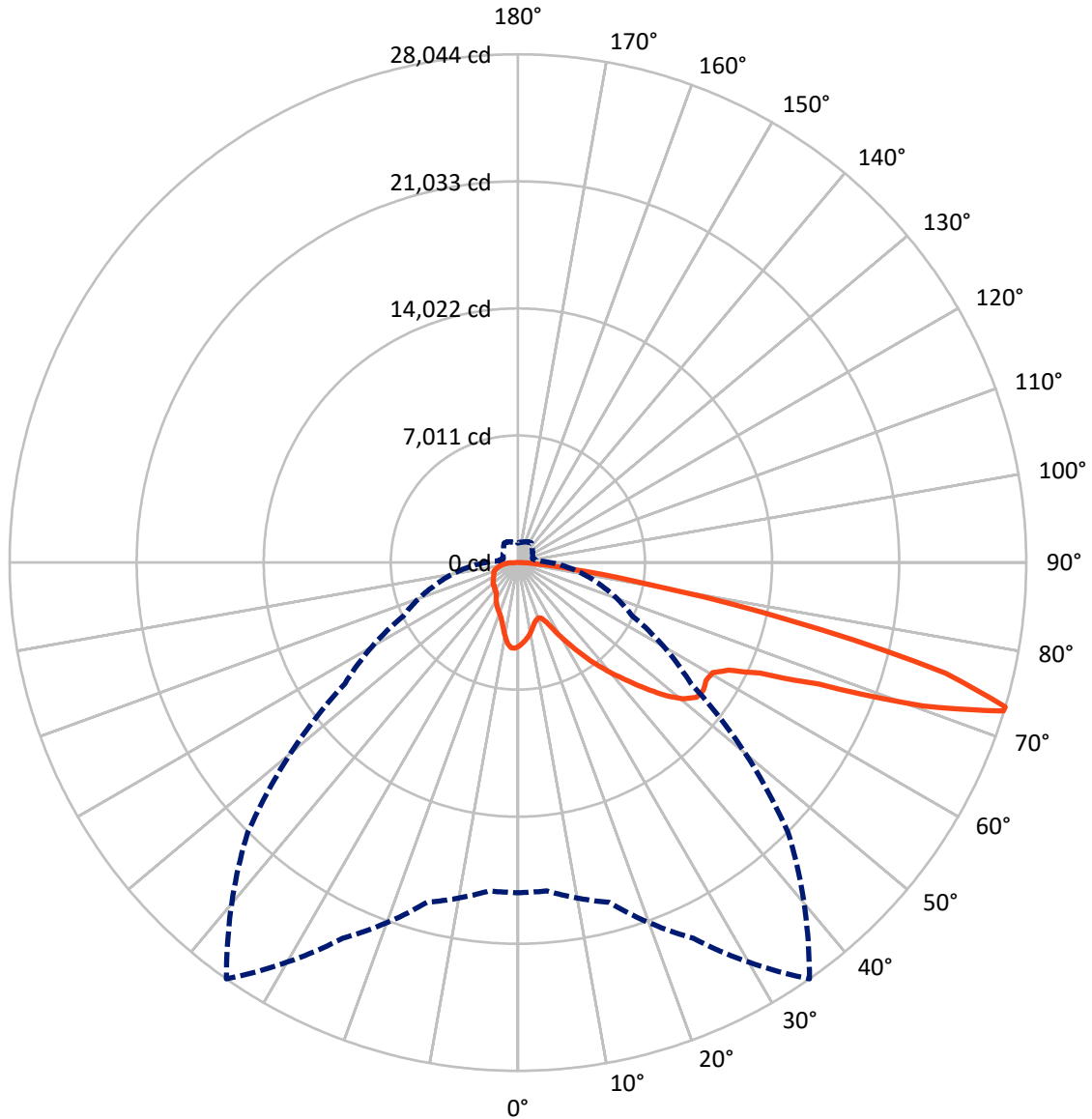


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Non-Cutoff

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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	5844.8	0.0	5844.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	24800.0	0.0	24800.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	30644.8	0.0	30644.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	1.4
10°-20°	1045.1	3.4
20°-30°	1689.5	5.5
30°-40°	2833.0	9.2
40°-50°	4367.0	14.3
50°-60°	5858.8	19.1
60°-70°	7805.1	25.5
70°-80°	5952.9	19.4
80°-90°	674.7	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°	30644.8	100.0
0°-180°	30644.8	100.0



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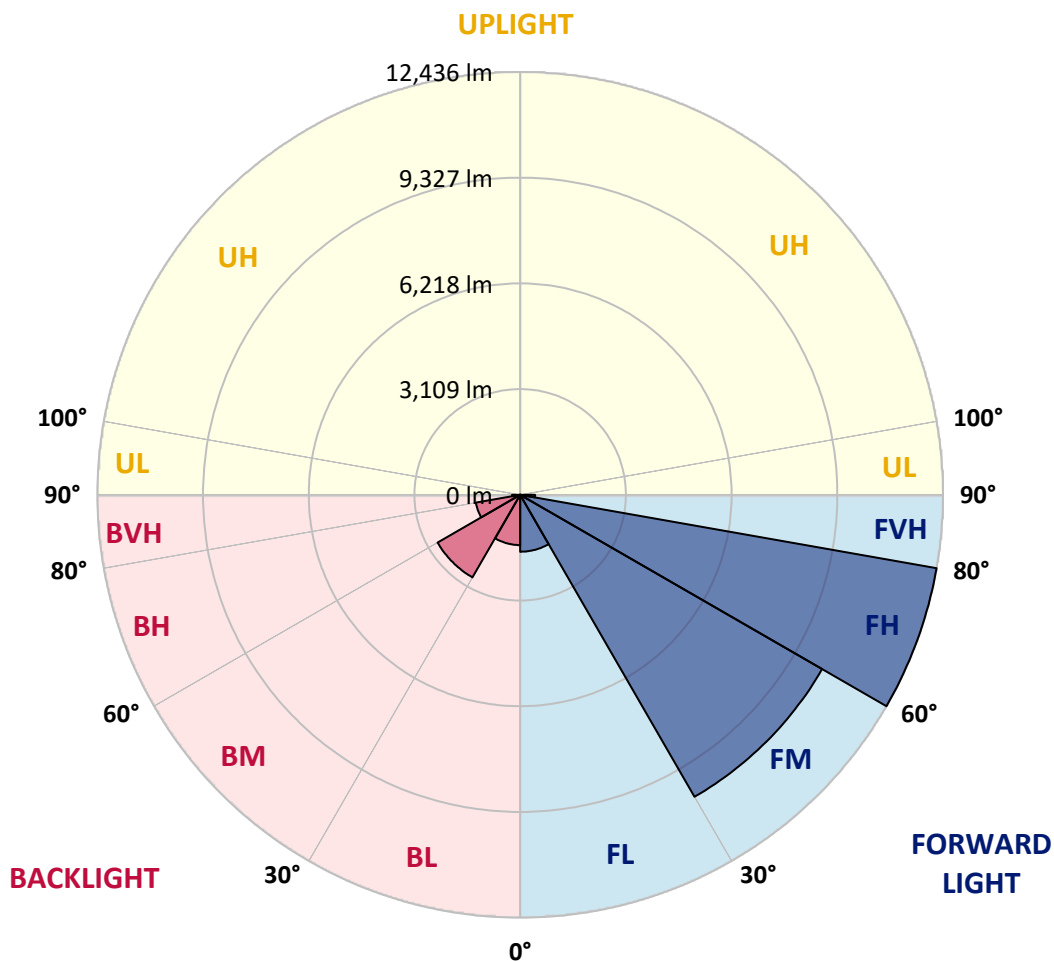
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1674.2	5.5			
FM	(30°-60°)	10253.9	33.5			
FH	(60°-80°)	12435.7	40.6			G5
FVH	(80°-90°)	436.2	1.4			G3/500
BL	(0°-30°)	1479.0	4.8	B3/2500		
BM	(30°-60°)	2804.9	9.2	B3/5000		
BH	(60°-80°)	1322.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	238.6	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4625.3	4625.3	4625.3	4625.3	4625.3	4625.3	4625.3	4625.3	4625.3	4625.3	4625.3
2.5°	4442.7	4451.6	4441.3	4454.5	4476.7	4500.1	4516.4	4539.9	4566.4	4603.2	4612.0
5°	4233.8	4247.0	4247.0	4270.6	4313.3	4351.5	4386.9	4425.1	4481.0	4544.3	4569.3
7.5°	4004.3	4011.7	4024.9	4060.2	4122.0	4176.4	4226.4	4288.2	4364.8	4448.6	4492.9
10°	3727.5	3737.8	3758.5	3808.5	3892.4	3967.5	4039.6	4124.8	4222.0	4326.4	4382.4
12.5°	3531.9	3528.9	3537.7	3574.5	3648.0	3739.4	3843.8	3952.7	4071.9	4194.0	4261.7
15°	3465.7	3449.4	3415.5	3406.7	3446.4	3537.7	3658.3	3792.4	3935.0	4082.3	4166.1
17.5°	3506.9	3478.9	3386.3	3318.5	3312.6	3381.8	3509.8	3659.9	3824.8	4004.3	4108.7
20°	3765.9	3699.6	3471.5	3314.0	3259.6	3293.5	3405.2	3564.2	3758.5	3996.9	4130.8
22.5°	4385.3	4288.2	3804.1	3511.2	3327.3	3286.1	3370.0	3539.2	3765.9	4088.1	4258.9
25°	5287.5	5149.2	4375.0	4002.8	3623.0	3403.8	3422.9	3596.6	3870.3	4300.0	4506.1
27.5°	5999.7	5909.9	5121.1	4695.9	4161.7	3721.7	3595.1	3740.8	4083.8	4647.3	4857.8
30°	6423.6	6369.2	5918.8	5481.7	4849.0	4228.0	3924.8	4011.7	4417.8	5128.6	5302.2
32.5°	6915.1	6882.8	6661.9	6260.2	5590.6	4893.1	4447.1	4416.2	4865.1	5706.9	5786.3
35°	7424.2	7413.9	7284.4	6996.0	6386.8	5770.2	5140.3	4931.3	5352.2	6307.3	6257.2
37.5°	7898.1	7880.4	7805.5	7637.6	7219.7	6712.0	5846.7	5459.7	5877.6	6881.2	6659.0
40°	8770.7	8632.4	8374.9	8248.3	8061.5	7505.2	6407.4	5952.7	6422.2	7428.7	7006.3
42.5°	9834.7	9609.6	9129.8	8956.2	8929.7	8130.6	6790.0	6430.8	6970.9	7971.6	7347.7
45°	10672.0	10460.1	10046.6	9827.4	9924.6	8697.2	7174.0	6941.6	7536.2	8541.2	7699.5
47.5°	11565.4	11232.8	10685.2	10751.5	10963.5	9232.8	7565.5	7490.4	8155.6	9178.4	8136.5
50°	11597.7	11343.1	11103.2	11499.2	11828.7	9725.8	8055.6	8065.8	8913.5	9980.3	8717.8
52.5°	10925.1	10870.7	11251.9	11874.3	12349.7	10115.9	8613.3	8660.4	9883.3	10901.7	9356.4
55°	10689.7	10627.9	11067.9	11743.5	12420.3	10438.0	9218.1	9303.4	11056.2	11872.9	9978.9
57.5°	11263.7	11126.8	11156.2	11681.6	12248.2	10791.2	9877.5	10049.6	12330.6	12722.1	10379.2
60°	12867.7	12574.8	12018.7	12005.4	12340.8	11321.1	10639.6	10850.2	13655.0	13128.2	10223.3
62.5°	15117.8	14825.0	13783.1	13104.7	13054.6	12195.2	11575.6	11631.6	14420.2	12577.8	9271.0
65°	17553.3	17291.4	16127.4	15169.3	14707.2	13643.3	12663.1	11980.3	14170.0	11063.5	7605.2
67.5°	20509.7	20228.7	19228.0	18343.5	17899.1	15980.2	13427.0	11646.3	12582.2	8570.5	5467.1
70°	22577.3	22290.5	21895.9	22612.7	23700.3	19351.6	13525.5	10288.0	9397.7	5696.6	3290.5
72.5°	19879.9	19746.0	20465.5	23483.9	28013.5	21397.1	12226.1	7490.4	5458.2	3024.1	1904.2
73°	18214.0	18184.6	19412.0	22873.2	28044.4	21082.2	11656.5	6962.1	4681.2	2675.4	1740.9
75°	8224.8	8461.8	11151.7	17470.9	24365.4	17372.3	8204.2	3994.0	2644.5	1848.4	1314.1
77.5°	1976.5	2058.7	3489.1	8296.8	15387.1	10352.7	3717.2	1975.0	1690.9	1305.2	959.5
80°	841.7	869.6	1343.5	3065.3	7244.7	4169.0	1713.0	1322.9	1170.0	910.9	672.6
82.5°	467.9	497.4	762.3	1390.7	2924.1	1421.6	1044.9	921.2	769.7	549.0	437.0
85°	264.9	281.1	445.9	777.0	1239.1	571.1	625.4	612.1	434.2	282.5	214.9
87.5°	125.0	135.4	214.9	360.5	485.7	223.7	317.9	350.2	272.2	172.1	111.8
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°	4625.3	4625.3	4625.3	4625.3	4625.3	4625.3	4625.3	4625.3	4625.3	4625.3
2.5°	4622.3	4648.8	4679.7	4695.9	4710.6	4728.3	4745.9	4745.9	4748.9	4750.3
5°	4589.9	4644.3	4692.9	4713.5	4718.0	4718.0	4713.5	4690.1	4669.4	4678.3
7.5°	4522.2	4601.7	4642.9	4635.6	4579.6	4514.9	4460.4	4394.1	4360.4	4354.4
10°	4425.1	4516.4	4523.8	4450.2	4311.9	4173.4	4058.7	3946.9	3893.9	3880.6
12.5°	4317.8	4401.5	4354.4	4202.9	3980.7	3779.1	3633.4	3520.1	3470.1	3456.8
15°	4230.8	4288.2	4169.0	3930.7	3651.0	3437.6	3317.0	3233.1	3197.7	3187.5
17.5°	4185.3	4197.1	3979.2	3656.9	3359.8	3181.5	3106.6	3066.9	3053.6	3046.2
20°	4207.3	4124.8	3798.3	3402.3	3121.3	2996.1	2978.5	2968.2	2965.2	2960.9
22.5°	4317.8	4102.7	3631.8	3161.0	2912.3	2857.9	2872.6	2871.2	2868.2	2865.2
25°	4514.9	4122.0	3470.1	2931.3	2737.1	2725.4	2751.9	2751.9	2740.1	2740.1
27.5°	4775.4	4161.7	3289.1	2713.6	2578.2	2579.8	2600.4	2594.5	2581.2	2572.3
30°	5093.2	4186.7	3077.1	2517.9	2429.6	2423.7	2429.6	2404.7	2364.9	2362.0
32.5°	5418.4	4155.7	2831.4	2344.2	2272.2	2258.9	2254.4	2219.3	2173.5	2160.3
35°	5712.9	4042.6	2581.2	2206.0	2122.1	2092.6	2113.3	2101.4	2060.3	2049.9
37.5°	5927.6	3832.1	2356.1	2083.8	2014.5	2007.3	2020.5	2024.9	1976.5	1966.1
40°	6071.9	3546.6	2163.3	1980.9	1994.0	1966.1	1922.0	1891.0	1876.3	1871.9
42.5°	6188.2	3249.3	2001.3	1932.3	1998.4	1917.5	1821.9	1771.7	1798.2	1810.1
45°	6322.0	2959.3	1866.0	1871.9	1976.5	1861.6	1752.7	1704.2	1714.4	1717.4
47.5°	6506.0	2606.3	1720.3	1774.7	1902.8	1823.3	1710.1	1640.8	1592.2	1570.1
50°	6760.6	2188.4	1568.7	1665.8	1830.7	1795.4	1643.8	1570.1	1480.4	1459.8
52.5°	6937.2	1798.2	1443.7	1574.5	1765.9	1739.5	1590.8	1495.1	1400.9	1383.3
55°	6841.5	1493.7	1334.7	1473.1	1680.5	1670.3	1546.6	1418.7	1345.0	1330.3
57.5°	6363.2	1300.8	1250.9	1377.5	1576.0	1611.4	1487.9	1353.8	1300.8	1290.5
60°	5450.8	1180.3	1197.9	1312.7	1490.7	1552.5	1428.9	1318.5	1283.3	1276.0
62.5°	4229.4	1099.3	1158.2	1265.6	1424.5	1511.4	1396.5	1314.1	1300.8	1292.0
65°	3030.1	1034.6	1115.4	1218.6	1364.2	1473.1	1384.7	1308.2	1311.2	1303.8
67.5°	2058.7	977.1	1064.0	1165.6	1305.2	1439.3	1368.6	1287.6	1324.5	1315.6
70°	1440.7	921.2	1003.6	1097.8	1231.8	1392.2	1339.2	1256.8	1253.9	1218.6
72.5°	1124.3	847.6	921.2	1003.6	1137.6	1325.9	1280.4	1187.6	1139.1	1102.2
73°	1072.8	829.9	900.6	983.0	1117.0	1309.6	1264.2	1168.4	1114.0	1080.1
75°	887.3	753.5	818.1	891.7	1028.6	1233.3	1184.7	1081.6	1012.5	991.9
77.5°	697.5	644.5	706.3	772.6	906.5	1121.4	1066.8	968.4	930.0	912.4
80°	516.5	534.2	588.6	647.5	785.8	1002.1	953.6	854.9	1025.8	983.0
82.5°	363.5	404.6	454.7	507.7	659.3	885.9	827.0	725.6	750.5	624.0
85°	214.9	264.9	312.0	357.5	475.4	734.4	682.8	578.4	473.9	451.8
87.5°	125.0	147.1	160.3	207.5	326.8	553.4	481.2	428.2	245.7	166.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)