

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: P300459

Luminaire Tested: **GLNA-AF-08-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300459
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: GLNA-AF-08-LED-E1-T4FT-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30477.1 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

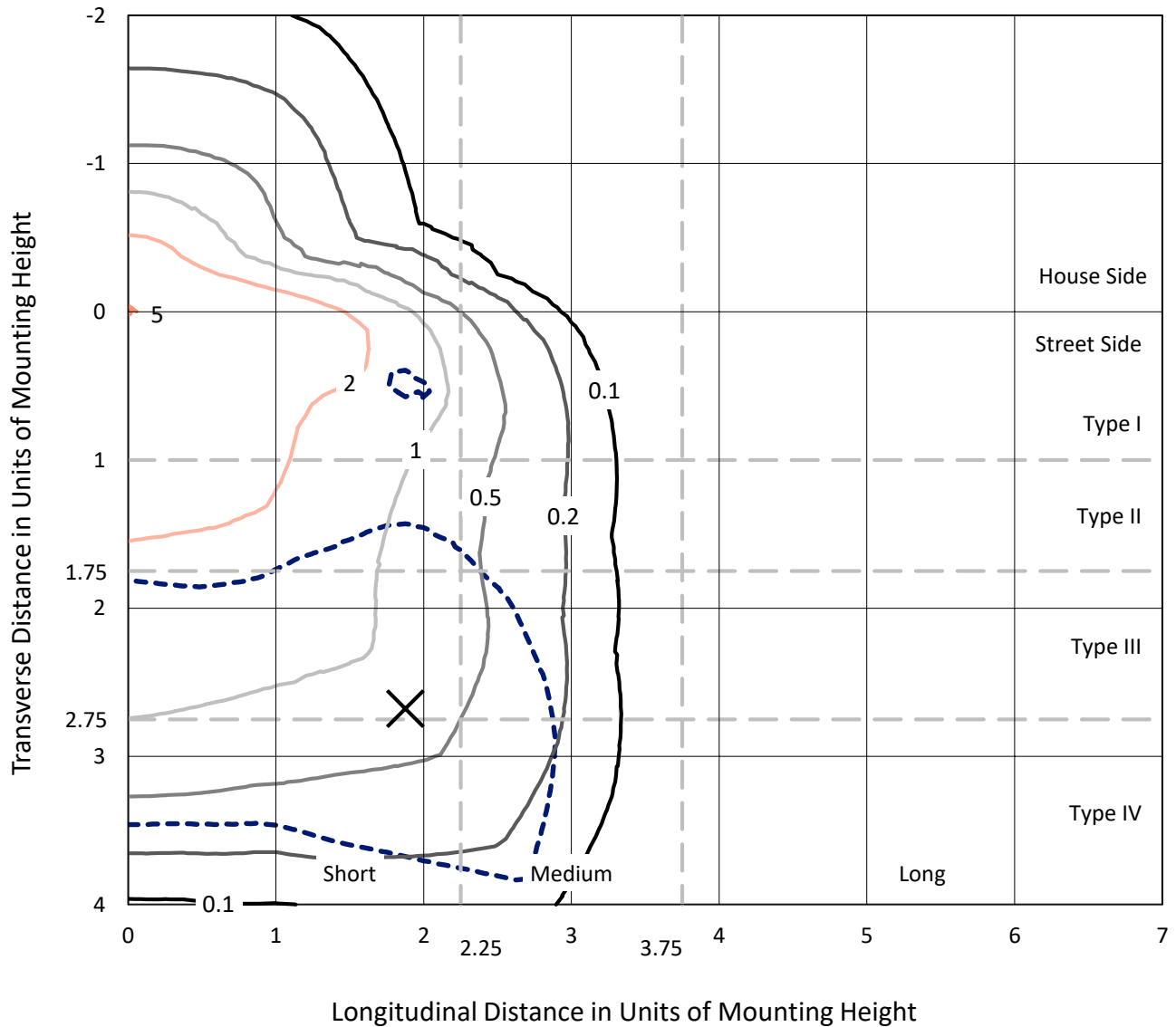
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

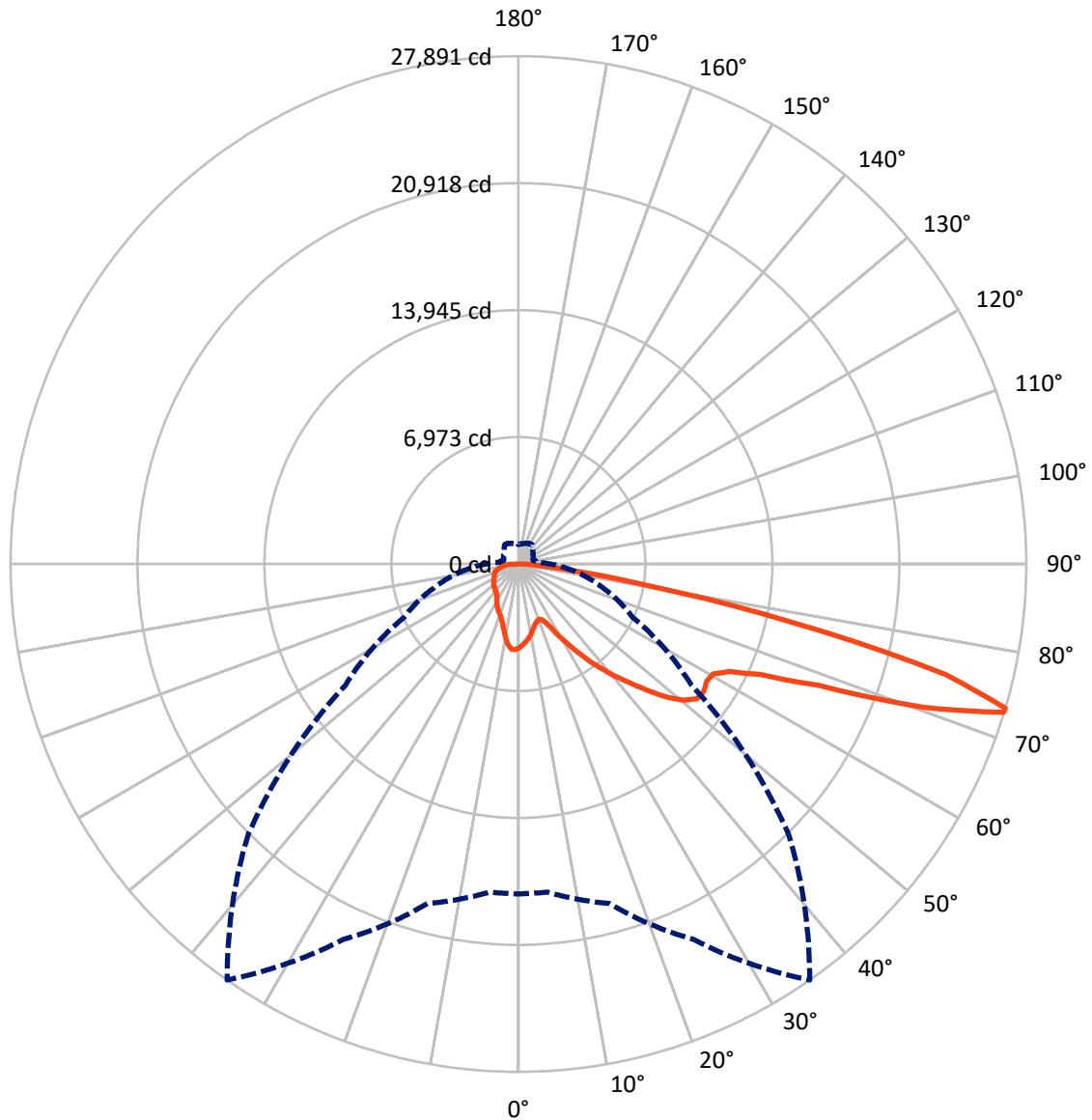
× Max cd
 - - - 1/2 Max cd



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	5812.8	0.0	5812.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	24664.3	0.0	24664.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	30477.1	0.0	30477.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.4	1.4
10°-20°	1039.3	3.4
20°-30°	1680.2	5.5
30°-40°	2817.5	9.2
40°-50°	4343.1	14.3
50°-60°	5826.7	19.1
60°-70°	7762.4	25.5
70°-80°	5920.3	19.4
80°-90°	671.0	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°	30477.1	100.0
0°-180°	30477.1	100.0



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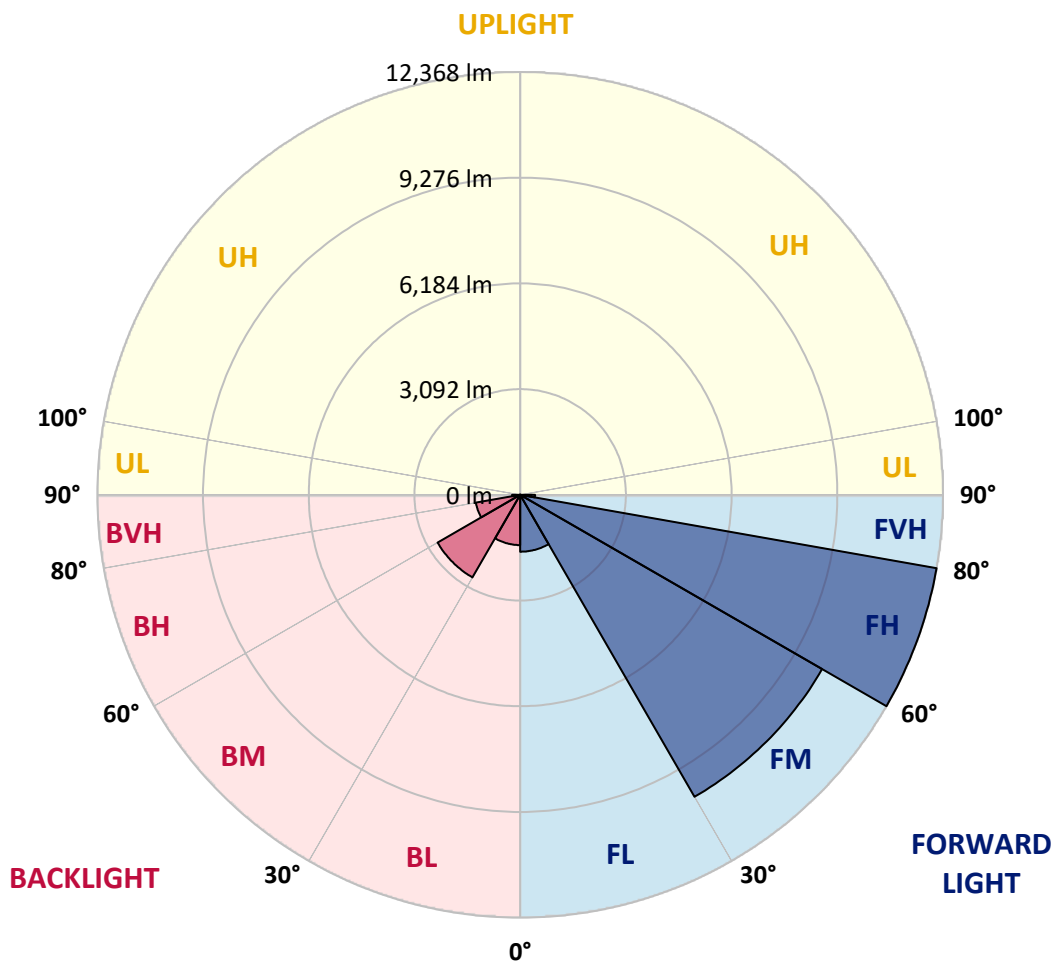
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1665.1	5.5			
FM	(30°-60°)	10197.8	33.5			
FH	(60°-80°)	12367.6	40.6			G5
FVH	(80°-90°)	433.8	1.4			G3/500
BL	(0°-30°)	1470.9	4.8	B3/2500		
BM	(30°-60°)	2789.5	9.2	B3/5000		
BH	(60°-80°)	1315.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	237.3	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°	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9
2.5°	4418.5	4427.2	4417.0	4430.2	4452.1	4475.5	4491.6	4515.1	4541.4	4578.0	4586.8
5°	4210.6	4223.8	4223.8	4247.2	4289.7	4327.7	4362.8	4400.9	4456.5	4519.4	4544.3
7.5°	3982.3	3989.6	4002.8	4037.9	4099.4	4153.6	4203.3	4264.8	4340.9	4424.3	4468.2
10°	3707.2	3717.4	3737.9	3787.7	3871.1	3945.7	4017.4	4102.3	4198.9	4302.8	4358.5
12.5°	3512.5	3509.6	3518.4	3555.0	3628.1	3718.9	3822.8	3931.1	4049.6	4171.1	4238.4
15°	3446.7	3430.6	3396.9	3388.1	3427.6	3518.4	3638.4	3771.6	3913.5	4059.9	4143.3
17.5°	3487.6	3459.8	3367.6	3300.3	3294.5	3363.2	3490.6	3639.9	3803.8	3982.3	4086.2
20°	3745.2	3679.4	3452.5	3295.9	3241.8	3275.4	3386.7	3544.7	3737.9	3975.0	4108.2
22.5°	4361.4	4264.8	3783.3	3492.0	3309.1	3268.1	3351.5	3519.8	3745.2	4065.7	4235.5
25°	5258.5	5121.0	4351.1	3980.9	3603.3	3385.2	3404.2	3576.9	3849.1	4276.5	4481.4
27.5°	5966.9	5877.6	5093.2	4670.2	4138.9	3701.3	3575.5	3720.3	4061.4	4621.9	4831.2
30°	6388.4	6334.2	5886.4	5451.7	4822.4	4204.8	3903.3	3989.6	4393.6	5100.5	5273.2
32.5°	6877.2	6845.0	6625.5	6225.9	5560.0	4866.3	4422.9	4392.1	4838.5	5675.7	5754.7
35°	7383.6	7373.4	7244.6	6957.7	6351.8	5738.6	5112.2	4904.4	5322.9	6272.8	6223.0
37.5°	7854.9	7837.3	7762.7	7595.8	7180.2	6675.3	5814.7	5429.8	5845.4	6843.6	6622.6
40°	8722.8	8585.2	8329.1	8203.2	8017.3	7464.1	6372.3	5920.1	6386.9	7388.0	6968.0
42.5°	9780.9	9557.0	9079.9	8907.2	8880.8	8086.1	6752.8	6395.7	6932.8	7928.1	7307.5
45°	10613.7	10402.9	9991.7	9773.6	9870.2	8649.6	7134.8	6903.6	7494.8	8494.4	7657.3
47.5°	11502.0	11171.3	10626.8	10692.7	10903.5	9182.3	7524.1	7449.5	8111.0	9128.2	8092.0
50°	11534.2	11281.1	11042.5	11436.2	11764.0	9672.6	8011.5	8021.7	8864.7	9925.8	8670.1
52.5°	10865.4	10811.3	11190.3	11809.4	12282.1	10060.4	8566.2	8613.0	9829.2	10842.0	9305.3
55°	10631.2	10569.8	11007.4	11679.1	12352.4	10381.0	9167.7	9252.6	10995.7	11807.9	9924.3
57.5°	11202.0	11065.9	11095.2	11617.7	12181.1	10732.2	9823.4	9994.6	12263.1	12652.4	10322.4
60°	12797.3	12506.0	11952.8	11939.6	12273.3	11259.1	10581.5	10790.8	13580.3	13056.3	10167.3
62.5°	15035.1	14743.8	13707.6	13032.9	12983.2	12128.4	11512.3	11567.9	14341.3	12509.0	9220.4
65°	17457.2	17196.7	16039.1	15086.3	14626.7	13568.6	12593.9	11914.8	14092.5	11003.0	7563.6
67.5°	20397.5	20118.0	19122.8	18243.2	17801.2	15892.7	13353.4	11582.5	12513.4	8523.7	5437.1
70°	22453.8	22168.4	21776.2	22488.9	23570.5	19245.7	13451.5	10231.7	9346.2	5665.4	3272.5
72.5°	19771.1	19637.9	20353.6	23355.3	27860.2	21280.0	12159.2	7449.5	5428.3	3007.6	1893.8
73°	18114.4	18085.1	19305.7	22748.0	27890.9	20966.8	11592.8	6924.1	4655.6	2660.7	1731.4
75°	8179.8	8415.4	11090.8	17375.3	24232.0	17277.2	8159.3	3972.1	2630.0	1838.2	1307.0
77.5°	1965.5	2047.5	3470.1	8251.5	15302.9	10296.1	3696.9	1964.1	1681.6	1298.2	954.2
80°	837.2	865.0	1336.2	3048.6	7205.1	4146.2	1703.6	1315.7	1163.5	905.9	668.8
82.5°	465.4	494.7	758.1	1383.1	2908.1	1413.8	1039.1	916.2	765.4	545.9	434.7
85°	263.4	279.5	443.5	772.8	1232.3	567.9	622.0	608.8	431.7	281.0	213.7
87.5°	124.4	134.6	213.7	358.6	483.0	222.5	316.1	348.3	270.8	171.2	111.2
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°	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9
2.5°	4597.0	4623.4	4654.1	4670.2	4684.8	4702.4	4720.0	4720.0	4722.9	4724.3
5°	4564.8	4619.0	4667.3	4687.8	4692.1	4692.1	4687.8	4664.3	4643.8	4652.6
7.5°	4497.5	4576.5	4617.5	4610.2	4554.6	4490.2	4436.0	4370.2	4336.5	4330.6
10°	4400.9	4491.6	4499.0	4425.8	4288.2	4150.6	4036.5	3925.2	3872.6	3859.4
12.5°	4294.1	4377.5	4330.6	4179.9	3958.9	3758.4	3613.5	3500.8	3451.1	3437.9
15°	4207.7	4264.8	4146.2	3909.1	3631.1	3418.9	3298.8	3215.4	3180.3	3170.1
17.5°	4162.3	4174.0	3957.4	3636.9	3341.3	3164.2	3089.6	3050.0	3036.9	3029.6
20°	4184.3	4102.3	3777.4	3383.7	3104.2	2979.8	2962.2	2952.0	2949.1	2944.7
22.5°	4294.1	4080.4	3612.0	3143.7	2896.4	2842.2	2856.9	2855.4	2852.5	2849.5
25°	4490.2	4099.4	3451.1	2915.4	2722.2	2710.5	2736.8	2736.8	2725.1	2725.1
27.5°	4749.2	4138.9	3271.0	2698.8	2564.1	2565.6	2586.1	2580.2	2567.1	2558.3
30°	5065.3	4163.8	3060.3	2504.1	2416.3	2410.5	2416.3	2391.4	2351.9	2349.0
32.5°	5388.8	4133.1	2815.9	2331.4	2259.7	2246.6	2242.2	2207.0	2161.7	2148.5
35°	5681.5	4020.4	2567.1	2193.9	2110.4	2081.2	2101.7	2090.0	2049.0	2038.7
37.5°	5895.2	3811.1	2343.1	2072.4	2003.6	1996.3	2009.5	2013.8	1965.5	1955.3
40°	6038.6	3527.2	2151.4	1969.9	1983.1	1955.3	1911.4	1880.7	1866.0	1861.6
42.5°	6154.2	3231.5	1990.4	1921.6	1987.5	1907.0	1811.9	1762.1	1788.5	1800.2
45°	6287.4	2943.2	1855.8	1861.6	1965.5	1851.4	1743.1	1694.8	1705.0	1708.0
47.5°	6470.4	2591.9	1710.9	1765.0	1892.4	1813.3	1700.6	1631.9	1583.6	1561.6
50°	6723.6	2176.3	1560.1	1656.7	1820.7	1785.5	1634.8	1561.6	1472.3	1451.8
52.5°	6899.2	1788.5	1435.7	1566.0	1756.3	1729.9	1582.1	1487.0	1393.3	1375.7
55°	6804.0	1485.5	1327.4	1465.0	1671.4	1661.1	1538.2	1410.9	1337.7	1323.1
57.5°	6328.4	1293.8	1244.0	1369.9	1567.5	1602.6	1479.7	1346.5	1293.8	1283.5
60°	5421.0	1173.8	1191.3	1305.5	1482.6	1544.0	1421.1	1311.3	1276.2	1268.9
62.5°	4206.2	1093.3	1151.8	1258.7	1416.7	1503.1	1388.9	1307.0	1293.8	1285.0
65°	3013.5	1028.9	1109.4	1211.8	1356.7	1465.0	1377.2	1301.1	1304.0	1296.7
67.5°	2047.5	971.8	1058.1	1159.1	1298.2	1431.4	1361.1	1280.6	1317.2	1308.4
70°	1432.8	916.2	998.1	1091.8	1225.0	1384.5	1331.8	1249.9	1246.9	1211.8
72.5°	1118.2	843.0	916.2	998.1	1131.3	1318.7	1273.3	1181.1	1132.8	1096.2
73°	1066.9	825.4	895.7	977.7	1110.8	1302.6	1257.2	1162.1	1107.9	1074.2
75°	882.5	749.3	813.7	886.9	1023.0	1226.5	1178.2	1075.7	1006.9	986.4
77.5°	693.7	641.0	702.5	768.4	901.5	1115.2	1061.1	963.0	925.0	907.4
80°	513.7	531.3	585.4	644.0	781.5	996.7	948.4	850.3	1020.1	977.7
82.5°	361.5	402.5	452.2	504.9	655.7	881.1	822.5	721.5	746.4	620.5
85°	213.7	263.4	310.3	355.6	472.7	730.3	679.1	575.2	471.3	449.3
87.5°	124.4	146.4	159.5	206.4	324.9	550.3	478.6	425.9	244.4	165.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)