

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: P300399

Luminaire Tested: **GLNA-AF-08-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300399
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-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37375.9 lumens
Efficiency: N/A
Efficacy: 111.9 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): 334
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

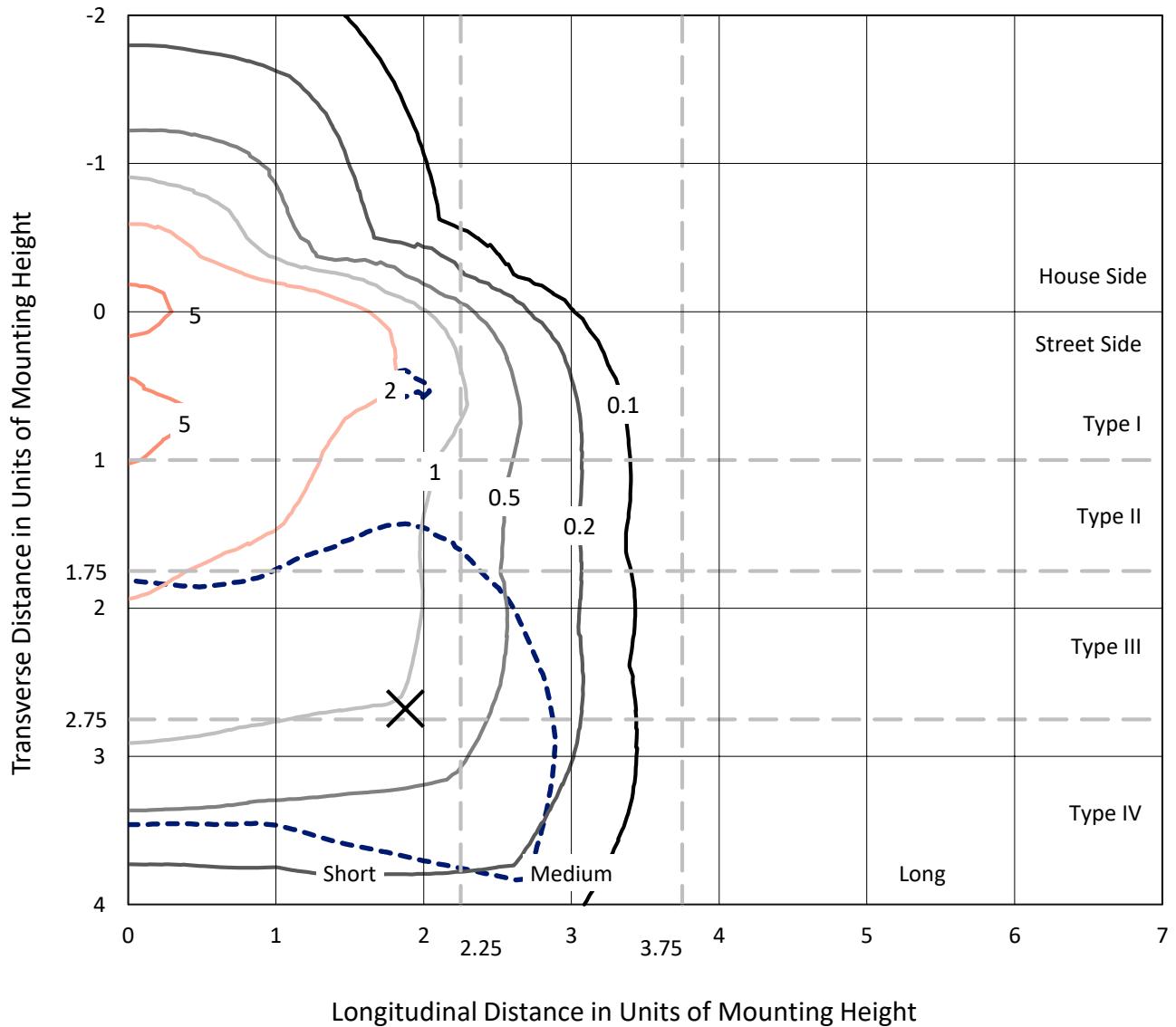


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Iso-Footcandle Lines of Horizontal Illumination

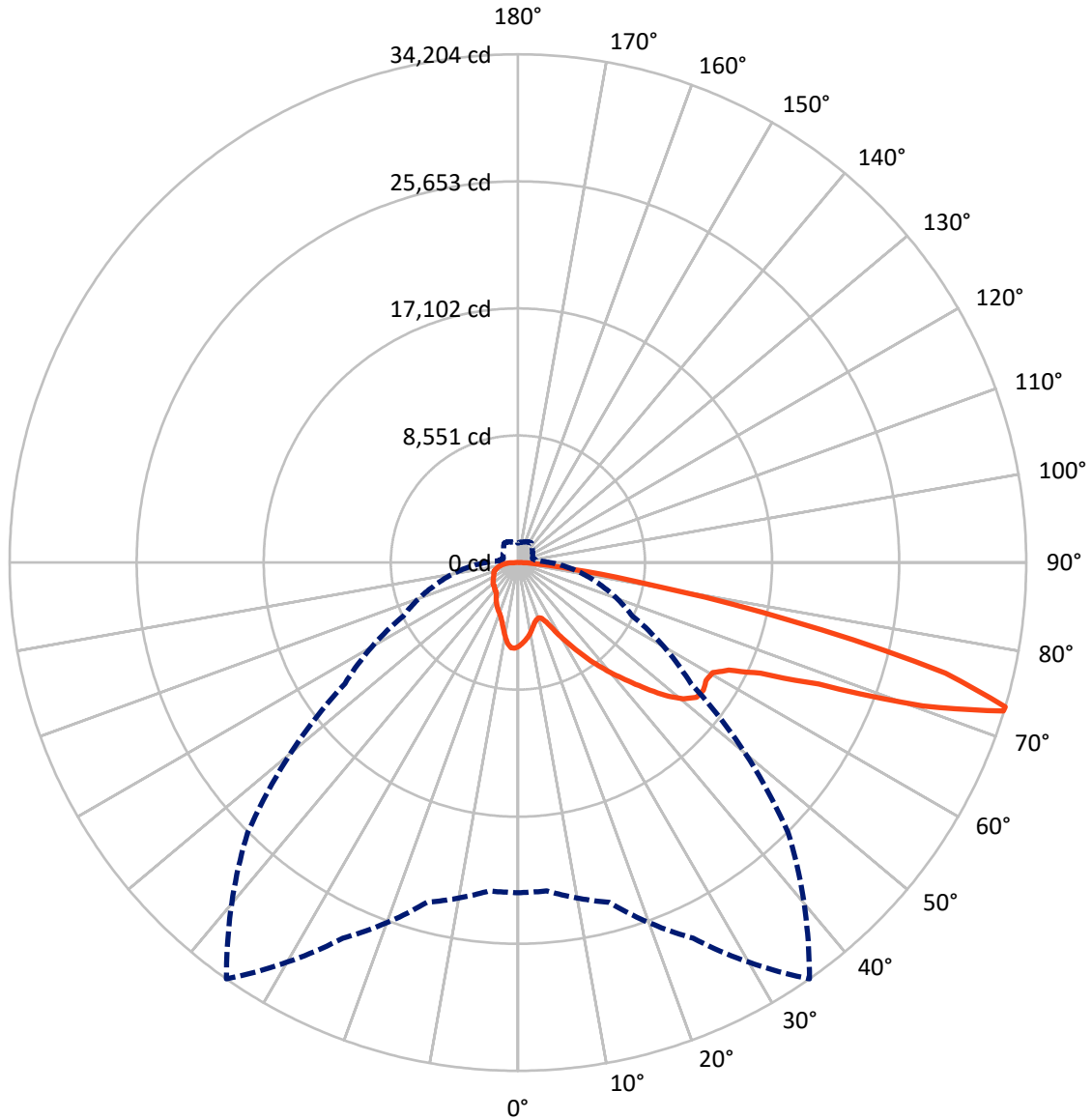
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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	7128.6	0.0	7128.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	30247.3	0.0	30247.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	37375.9	0.0	37375.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.7	1.4
10°-20°	1274.6	3.4
20°-30°	2060.6	5.5
30°-40°	3455.3	9.2
40°-50°	5326.2	14.3
50°-60°	7145.7	19.1
60°-70°	9519.5	25.5
70°-80°	7260.5	19.4
80°-90°	822.9	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°	37375.9	100.0
0°-180°	37375.9	100.0

Coefficient of Utilization



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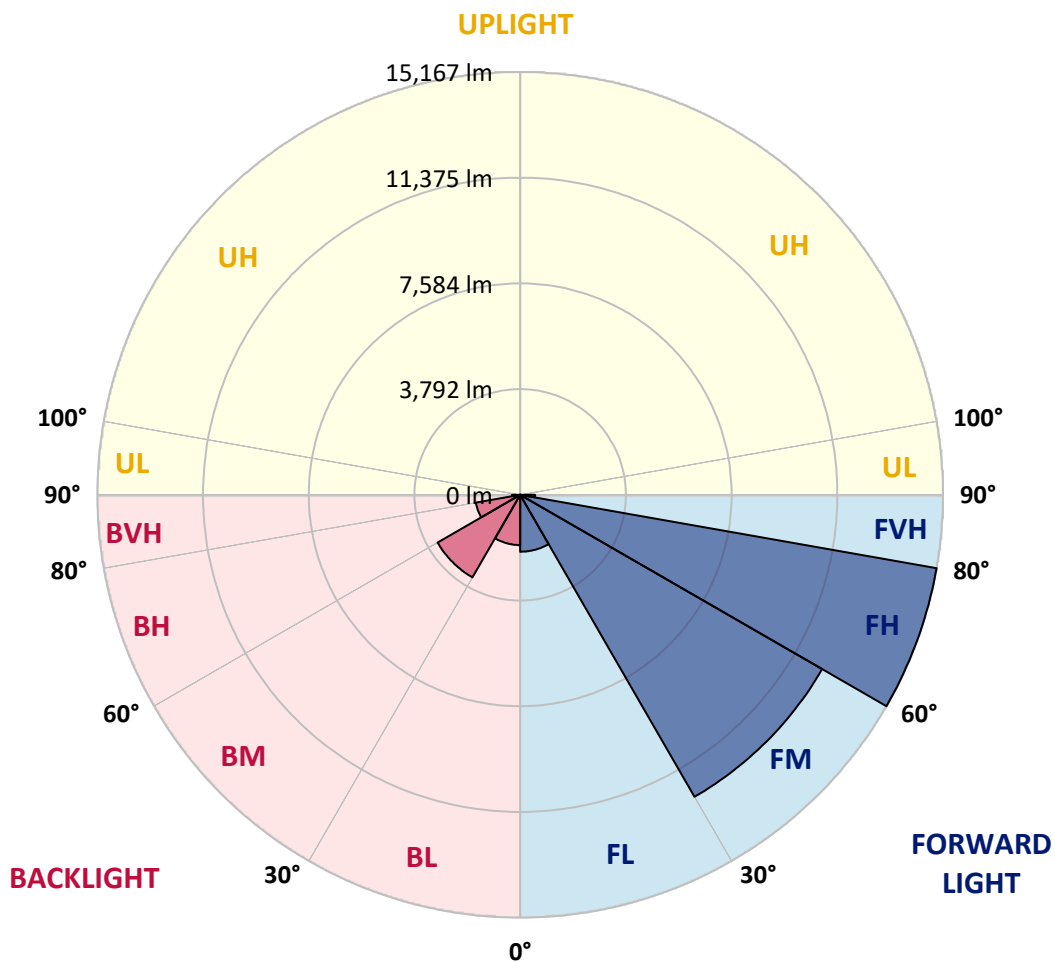
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2042.0	5.5			
FM	(30°-60°)	12506.2	33.5			
FH	(60°-80°)	15167.1	40.6			G5
FVH	(80°-90°)	531.9	1.4			G4/750
BL	(0°-30°)	1803.9	4.8	B3/2500		
BM	(30°-60°)	3420.9	9.2	B3/5000		
BH	(60°-80°)	1612.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	291.0	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°	5641.2	5641.2	5641.2	5641.2	5641.2	5641.2	5641.2	5641.2	5641.2	5641.2	5641.2
2.5°	5418.6	5429.4	5416.8	5433.0	5459.9	5488.6	5508.4	5537.1	5569.4	5614.3	5625.0
5°	5163.8	5179.9	5179.9	5208.6	5260.7	5307.3	5350.4	5397.1	5465.3	5542.5	5573.0
7.5°	4883.8	4892.7	4908.9	4952.0	5027.3	5093.8	5154.8	5230.2	5323.5	5425.8	5479.6
10°	4546.3	4558.9	4584.0	4645.0	4747.3	4838.9	4926.8	5030.9	5149.4	5276.8	5345.0
12.5°	4307.6	4304.0	4314.8	4359.7	4449.4	4560.7	4688.1	4820.9	4966.3	5115.3	5197.9
15°	4226.8	4207.1	4165.8	4155.1	4203.5	4314.8	4462.0	4625.3	4799.4	4978.9	5081.2
17.5°	4277.1	4243.0	4129.9	4047.4	4040.2	4124.5	4280.7	4463.8	4664.8	4883.8	5011.2
20°	4593.0	4512.2	4234.0	4042.0	3975.6	4016.8	4153.3	4347.1	4584.0	4874.8	5038.1
22.5°	5348.6	5230.2	4639.7	4282.5	4058.1	4007.9	4110.2	4316.6	4593.0	4986.1	5194.3
25°	6448.9	6280.1	5336.1	4882.0	4418.9	4151.5	4174.8	4386.6	4720.4	5244.5	5495.8
27.5°	7317.6	7208.1	6246.0	5727.3	5075.8	4539.1	4384.8	4562.5	4980.7	5668.1	5924.8
30°	7834.5	7768.1	7218.8	6685.8	5914.0	5156.6	4786.8	4892.7	5388.1	6255.0	6466.8
32.5°	8433.9	8394.5	8125.2	7635.2	6818.6	5967.8	5424.0	5386.3	5933.7	6960.4	7057.3
35°	9055.0	9042.4	8884.5	8532.7	7789.6	7037.6	6269.4	6014.5	6527.8	7692.7	7631.7
37.5°	9632.9	9611.4	9519.8	9315.2	8805.5	8186.3	7130.9	6658.9	7168.6	8392.7	8121.6
40°	10697.2	10528.5	10214.4	10060.1	9832.1	9153.7	7814.7	7260.1	7832.7	9060.3	8545.2
42.5°	11994.9	11720.3	11135.2	10923.4	10891.1	9916.5	8281.4	7843.4	8502.2	9722.6	8961.6
45°	13016.2	12757.7	12253.4	11985.9	12104.4	10607.5	8749.8	8466.3	9191.4	10417.2	9390.6
47.5°	14105.6	13700.0	13032.3	13113.1	13371.5	11260.8	9227.3	9135.7	9947.0	11194.4	9923.7
50°	14145.1	13834.6	13542.1	14024.9	14426.9	11862.1	9824.9	9837.5	10871.3	12172.6	10632.6
52.5°	13324.9	13258.5	13723.3	14482.6	15062.3	12337.7	10505.2	10562.6	12054.1	13296.2	11411.6
55°	13037.7	12962.3	13499.0	14322.8	15148.4	12730.8	11242.9	11347.0	13484.6	14480.8	12170.8
57.5°	13737.7	13570.8	13606.7	14247.4	14938.4	13161.6	12047.0	12257.0	15039.0	15516.4	12659.0
60°	15694.1	15336.9	14658.4	14642.3	15051.5	13807.7	12976.7	13233.3	16654.3	16011.8	12468.7
62.5°	18438.4	18081.2	16810.5	15983.0	15922.0	14873.8	14118.2	14186.4	17587.6	15340.5	11307.5
65°	21408.8	21089.4	19669.6	18501.2	17937.6	16640.0	15444.6	14611.8	17282.5	13493.6	9275.7
67.5°	25014.7	24671.9	23451.4	22372.7	21830.6	19490.2	16376.1	14204.4	15345.9	10453.1	6667.8
70°	27536.4	27186.4	26705.4	27579.5	28905.9	23602.1	16496.4	12547.7	11461.8	6947.8	4013.3
72.5°	24246.5	24083.1	24960.8	28642.0	34166.6	26097.0	14911.5	9135.7	6657.1	3688.4	2322.5
73°	22214.7	22178.8	23675.7	27897.2	34204.2	25712.9	14216.9	8491.4	5709.4	3263.0	2123.3
75°	10031.4	10320.3	13601.3	21308.3	29717.1	21188.1	10006.2	4871.2	3225.3	2254.3	1602.8
77.5°	2410.5	2511.0	4255.6	10119.3	18766.8	12626.7	4533.8	2408.7	2062.3	1592.0	1170.2
80°	1026.6	1060.7	1638.7	3738.6	8836.0	5084.8	2089.2	1613.6	1426.9	1111.0	820.2
82.5°	570.8	606.7	929.7	1696.1	3566.3	1733.8	1274.3	1123.6	938.7	669.5	533.1
85°	323.1	342.8	543.8	947.7	1511.3	696.4	762.8	746.7	529.5	344.6	262.0
87.5°	152.6	165.1	262.0	439.7	592.3	272.8	387.7	427.2	332.0	210.0	136.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5641.2	5641.2	5641.2	5641.2	5641.2	5641.2	5641.2	5641.2	5641.2	5641.2
2.5°	5637.6	5669.9	5707.6	5727.3	5745.3	5766.8	5788.4	5788.4	5791.9	5793.7
5°	5598.1	5664.5	5723.7	5748.9	5754.3	5754.3	5748.9	5720.2	5695.0	5705.8
7.5°	5515.5	5612.5	5662.7	5653.7	5585.5	5506.6	5440.2	5359.4	5318.1	5310.9
10°	5397.1	5508.4	5517.3	5427.6	5258.9	5090.2	4950.2	4813.8	4749.1	4733.0
12.5°	5266.1	5368.4	5310.9	5126.1	4855.0	4609.1	4431.5	4293.3	4232.2	4216.1
15°	5160.2	5230.2	5084.8	4794.0	4453.0	4192.7	4045.6	3943.3	3900.2	3887.6
17.5°	5104.5	5118.9	4853.2	4460.2	4097.6	3880.4	3788.9	3740.4	3724.3	3715.3
20°	5131.4	5030.9	4632.5	4149.7	3806.9	3654.3	3632.8	3620.2	3616.6	3611.2
22.5°	5266.1	5004.0	4429.7	3855.3	3552.0	3485.6	3503.5	3501.7	3498.1	3494.6
25°	5506.6	5027.3	4232.2	3575.3	3338.4	3324.0	3356.3	3356.3	3342.0	3342.0
27.5°	5824.3	5075.8	4011.5	3309.7	3144.6	3146.4	3171.5	3164.3	3148.1	3137.4
30°	6211.9	5106.3	3753.0	3071.0	2963.3	2956.1	2963.3	2932.8	2884.3	2880.7
32.5°	6608.6	5068.6	3453.3	2859.2	2771.2	2755.1	2749.7	2706.6	2651.0	2634.8
35°	6967.6	4930.4	3148.1	2690.5	2588.2	2552.3	2577.4	2563.0	2512.8	2500.2
37.5°	7229.6	4673.8	2873.5	2541.5	2457.1	2448.2	2464.3	2469.7	2410.5	2397.9
40°	7405.5	4325.6	2638.4	2415.9	2432.0	2397.9	2344.1	2306.4	2288.4	2283.0
42.5°	7547.3	3963.0	2441.0	2356.6	2437.4	2338.7	2222.0	2161.0	2193.3	2207.7
45°	7710.6	3609.4	2275.9	2283.0	2410.5	2270.5	2137.7	2078.4	2091.0	2094.6
47.5°	7935.0	3178.7	2098.2	2164.6	2320.7	2223.8	2085.6	2001.2	1942.0	1915.1
50°	8245.5	2668.9	1913.3	2031.8	2232.8	2189.7	2004.8	1915.1	1805.6	1780.5
52.5°	8460.9	2193.3	1760.7	1920.5	2153.8	2121.5	1940.2	1823.6	1708.7	1687.1
55°	8344.2	1821.8	1627.9	1796.6	2049.7	2037.1	1886.4	1730.2	1640.5	1622.5
57.5°	7760.9	1586.6	1525.6	1680.0	1922.3	1965.3	1814.6	1651.3	1586.6	1574.1
60°	6648.1	1439.5	1461.0	1601.0	1818.2	1893.6	1742.8	1608.2	1565.1	1556.1
62.5°	5158.4	1340.7	1412.5	1543.6	1737.4	1843.3	1703.3	1602.8	1586.6	1575.9
65°	3695.6	1261.8	1360.5	1486.1	1663.8	1796.6	1688.9	1595.6	1599.2	1590.2
67.5°	2511.0	1191.8	1297.7	1421.5	1592.0	1755.4	1669.2	1570.5	1615.4	1604.6
70°	1757.1	1123.6	1224.1	1338.9	1502.3	1697.9	1633.3	1532.8	1529.2	1486.1
72.5°	1371.3	1033.8	1123.6	1224.1	1387.4	1617.1	1561.5	1448.4	1389.2	1344.3
73°	1308.4	1012.3	1098.4	1199.0	1362.3	1597.4	1541.8	1425.1	1358.7	1317.4
75°	1082.3	919.0	997.9	1087.7	1254.6	1504.1	1444.8	1319.2	1234.8	1209.7
77.5°	850.8	786.1	861.5	942.3	1105.6	1367.7	1301.3	1181.0	1134.3	1112.8
80°	630.0	651.5	717.9	789.7	958.4	1222.3	1163.1	1042.8	1251.0	1199.0
82.5°	443.3	493.6	554.6	619.2	804.1	1080.5	1008.7	884.9	915.4	761.0
85°	262.0	323.1	380.5	436.1	579.7	895.6	832.8	705.4	577.9	551.0
87.5°	152.6	179.5	195.6	253.1	398.5	674.9	586.9	522.3	299.7	202.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)