

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: P194075

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194075
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-07-LED-E1-T4FT-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA 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: 34562 lumens
Efficiency: N/A
Efficacy: 88.4 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

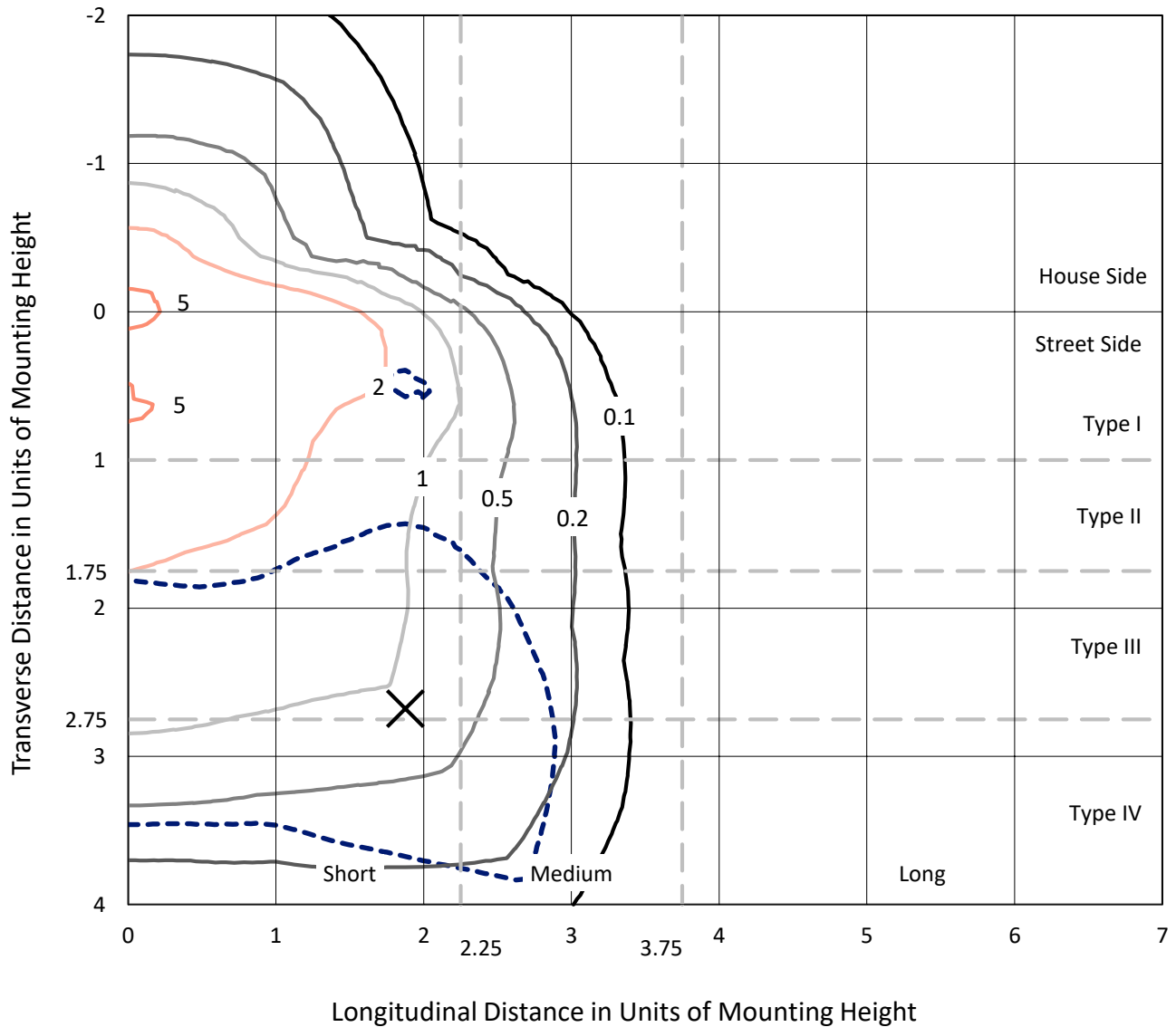
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P194075
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Iso-Footcandle Lines of Horizontal Illumination

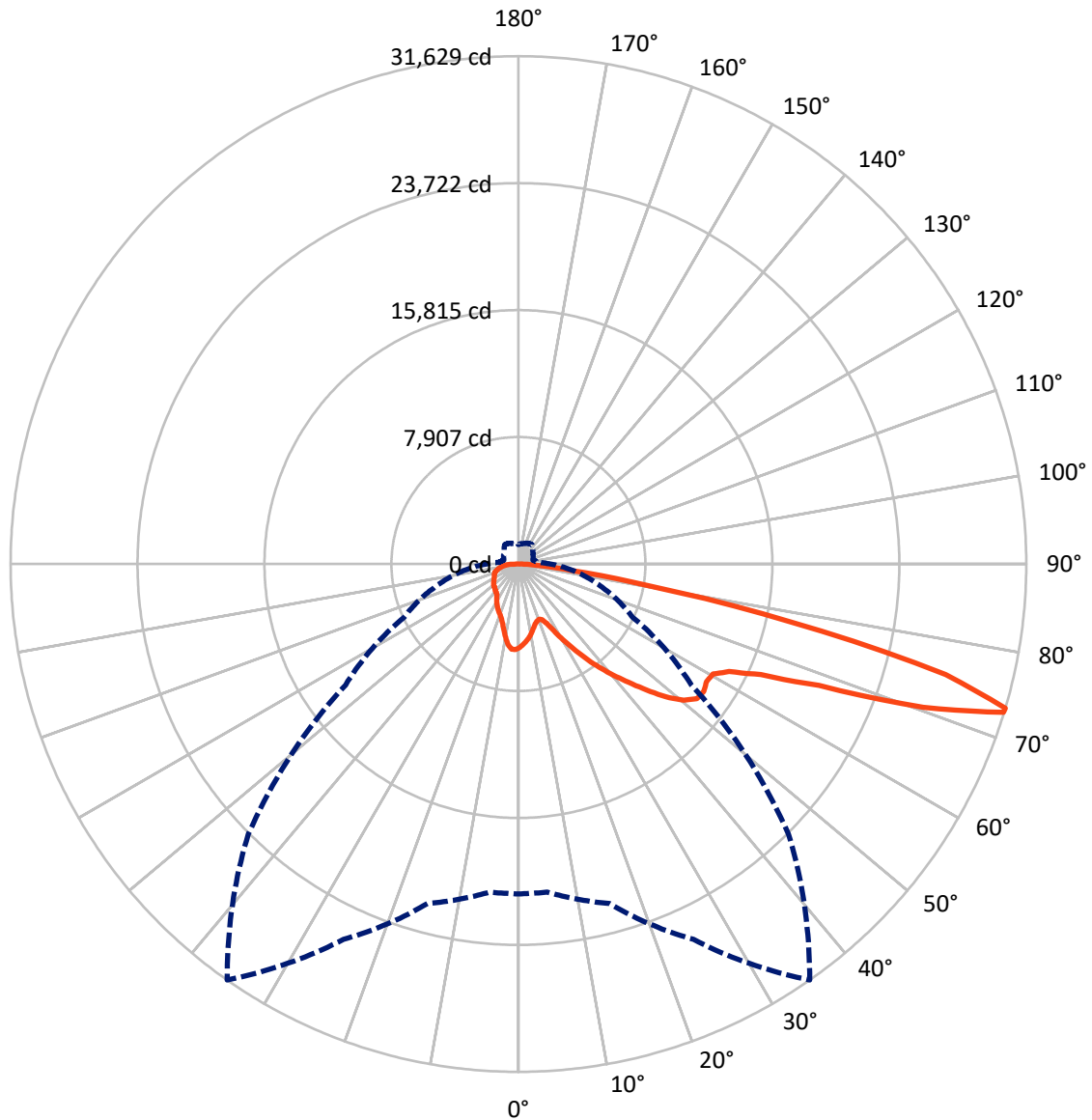
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P194075
CATALOG NUMBER: GLEON-AF-07-LED-E1-T4FT-8030

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	6591.9	0.0	6591.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	27970.1	0.0	27970.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	34562.0	0.0	34562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.2	1.4
10°-20°	1178.6	3.4
20°-30°	1905.4	5.5
30°-40°	3195.2	9.2
40°-50°	4925.2	14.3
50°-60°	6607.7	19.1
60°-70°	8802.8	25.5
70°-80°	6713.8	19.4
80°-90°	761.0	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°	34562.0	100.0
0°-180°	34562.0	100.0

Coefficient of Utilization



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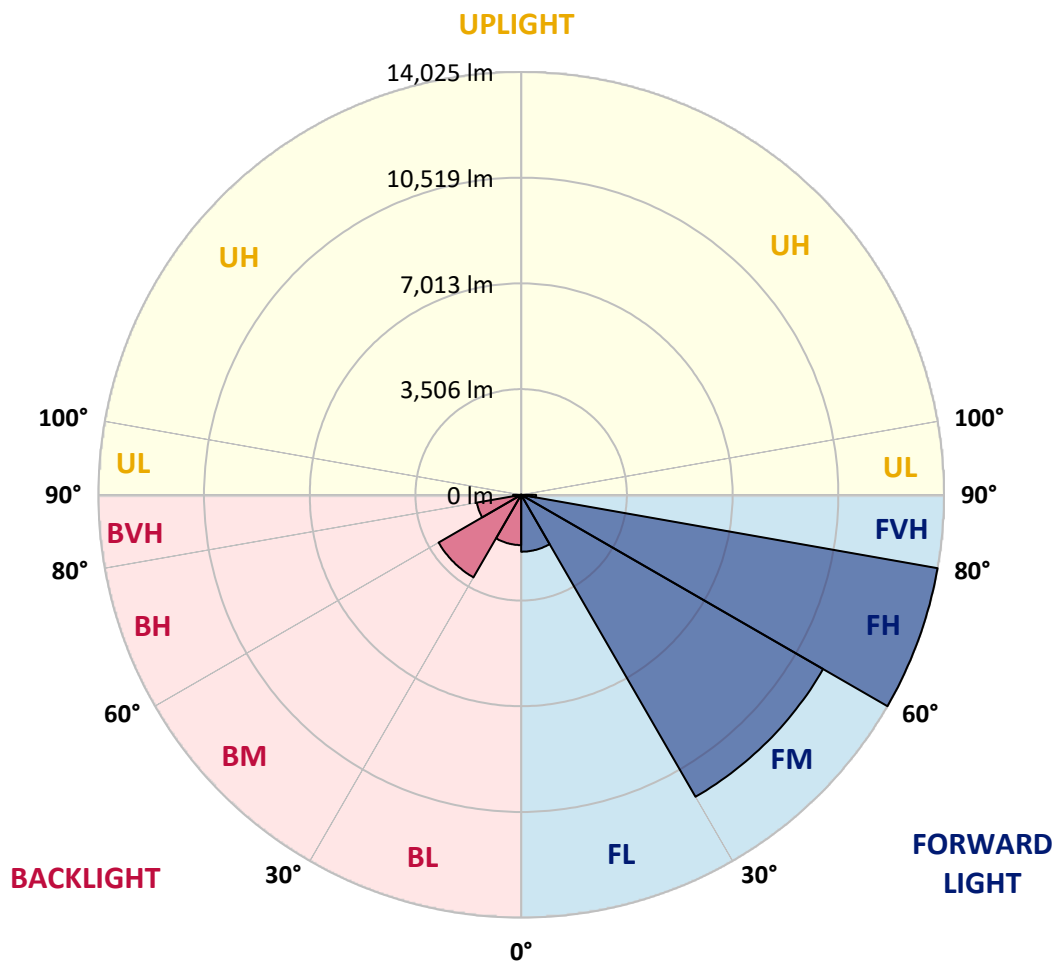
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1888.3	5.5			
FM	(30°-60°)	11564.7	33.5			
FH	(60°-80°)	14025.3	40.6			G5
FVH	(80°-90°)	491.9	1.4			G3/500
BL	(0°-30°)	1668.1	4.8	B3/2500		
BM	(30°-60°)	3163.4	9.2	B3/5000		
BH	(60°-80°)	1491.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	269.1	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°	5216.5	5216.5	5216.5	5216.5	5216.5	5216.5	5216.5	5216.5	5216.5	5216.5	5216.5
2.5°	5010.7	5020.6	5009.0	5024.0	5048.8	5075.4	5093.7	5120.2	5150.1	5191.6	5201.5
5°	4775.0	4789.9	4789.9	4816.5	4864.6	4907.8	4947.6	4990.8	5053.8	5125.2	5153.4
7.5°	4516.1	4524.4	4539.3	4579.1	4648.9	4710.3	4766.7	4836.4	4922.7	5017.3	5067.1
10°	4204.1	4215.7	4238.9	4295.3	4389.9	4474.6	4555.9	4652.2	4761.7	4879.6	4942.6
12.5°	3983.3	3980.0	3990.0	4031.4	4114.4	4217.3	4335.2	4458.0	4592.4	4730.2	4806.5
15°	3908.6	3890.4	3852.2	3842.2	3887.0	3990.0	4126.0	4277.1	4438.1	4604.0	4698.6
17.5°	3955.1	3923.6	3819.0	3742.7	3736.0	3814.0	3958.4	4127.7	4313.6	4516.1	4633.9
20°	4247.2	4172.5	3915.3	3737.7	3676.3	3714.4	3840.6	4019.8	4238.9	4507.8	4658.8
22.5°	4945.9	4836.4	4290.4	3960.1	3752.6	3706.1	3800.7	3991.6	4247.2	4610.7	4803.2
25°	5963.4	5807.3	4934.3	4514.4	4086.2	3838.9	3860.5	4056.3	4365.0	4849.7	5082.0
27.5°	6766.7	6665.4	5775.8	5296.1	4693.7	4197.4	4054.7	4219.0	4605.7	5241.4	5478.7
30°	7244.6	7183.2	6675.4	6182.4	5468.8	4768.4	4426.5	4524.4	4982.5	5784.1	5979.9
32.5°	7799.0	7762.5	7513.5	7060.4	6305.3	5518.5	5015.7	4980.8	5487.0	6436.4	6526.0
35°	8373.3	8361.6	8215.6	7890.3	7203.2	6507.7	5797.4	5561.7	6036.4	7113.5	7057.1
37.5°	8907.7	8887.8	8803.1	8613.9	8142.6	7570.0	6594.0	6157.5	6628.9	7760.8	7510.2
40°	9891.9	9735.9	9445.4	9302.7	9091.9	8464.5	7226.4	6713.5	7243.0	8378.2	7901.9
42.5°	11091.9	10837.9	10296.9	10101.0	10071.1	9169.9	7657.9	7252.9	7862.1	8990.7	8286.9
45°	12036.2	11797.2	11330.9	11083.6	11193.1	9808.9	8091.1	7828.9	8499.4	9633.0	8683.6
47.5°	13043.7	12668.6	12051.2	12125.9	12364.9	10413.0	8532.6	8447.9	9198.1	10351.6	9176.6
50°	13080.2	12793.1	12522.5	12969.0	13340.8	10969.0	9085.3	9096.9	10052.9	11256.2	9832.1
52.5°	12321.7	12260.3	12690.2	13392.2	13928.3	11408.9	9714.3	9767.4	11146.6	12295.2	10552.5
55°	12056.2	11986.5	12482.7	13244.5	14008.0	11772.3	10396.4	10492.7	12469.4	13390.6	11254.5
57.5°	12703.4	12549.1	12582.3	13174.8	13813.8	12170.7	11140.0	11334.2	13906.7	14348.2	11706.0
60°	14512.5	14182.3	13554.9	13539.9	13918.4	12768.2	11999.7	12237.1	15400.5	14806.3	11530.0
62.5°	17050.2	16720.0	15544.9	14779.7	14723.3	13754.0	13055.3	13118.4	16263.5	14185.6	10456.2
65°	19797.1	19501.6	18188.8	17108.3	16587.2	15387.2	14281.8	13511.7	15981.4	12477.7	8577.4
67.5°	23131.4	22814.4	21685.8	20688.3	20187.1	18022.8	15143.2	13135.0	14190.6	9666.2	6165.8
70°	25463.3	25139.7	24694.9	25503.2	26729.7	21825.2	15254.4	11603.1	10598.9	6424.8	3711.1
72.5°	22421.1	22270.0	23081.6	26485.7	31594.3	24132.2	13788.9	8447.9	6155.9	3410.7	2147.7
73°	20542.3	20509.1	21893.3	25796.9	31629.2	23777.1	13146.6	7852.1	5279.5	3017.4	1963.4
75°	9276.1	9543.4	12577.3	19704.1	27479.9	19592.9	9252.9	4504.5	2982.5	2084.6	1482.1
77.5°	2229.0	2321.9	3935.2	9357.5	17354.0	11676.1	4192.4	2227.3	1907.0	1472.2	1082.1
80°	949.4	980.9	1515.3	3457.2	8170.8	4702.0	1931.9	1492.1	1319.5	1027.4	758.5
82.5°	527.8	561.0	859.7	1568.4	3297.9	1603.3	1178.4	1039.0	868.0	619.1	492.9
85°	298.7	317.0	502.9	876.3	1397.5	644.0	705.4	690.4	489.6	318.7	242.3
87.5°	141.1	152.7	242.3	406.6	547.7	252.3	358.5	395.0	307.0	194.2	126.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5216.5	5216.5	5216.5	5216.5	5216.5	5216.5	5216.5	5216.5	5216.5	5216.5
2.5°	5213.2	5243.0	5277.9	5296.1	5312.7	5332.7	5352.6	5352.6	5355.9	5357.6
5°	5176.6	5238.1	5292.8	5316.1	5321.0	5321.0	5316.1	5289.5	5266.3	5276.2
7.5°	5100.3	5189.9	5236.4	5228.1	5165.0	5092.0	5030.6	4955.9	4917.7	4911.1
10°	4990.8	5093.7	5102.0	5019.0	4863.0	4706.9	4577.5	4451.4	4391.6	4376.7
12.5°	4869.6	4964.2	4911.1	4740.1	4489.5	4262.1	4097.8	3970.0	3913.6	3898.7
15°	4771.7	4836.4	4702.0	4433.1	4117.7	3877.1	3741.0	3646.4	3606.6	3594.9
17.5°	4720.2	4733.5	4487.9	4124.4	3789.1	3588.3	3503.7	3458.8	3443.9	3435.6
20°	4745.1	4652.2	4283.7	3837.3	3520.3	3379.2	3359.3	3347.6	3344.3	3339.3
22.5°	4869.6	4627.3	4096.2	3565.1	3284.6	3223.2	3239.8	3238.1	3234.8	3231.5
25°	5092.0	4648.9	3913.6	3306.1	3087.1	3073.8	3103.7	3103.7	3090.4	3090.4
27.5°	5385.8	4693.7	3709.5	3060.5	2907.8	2909.5	2932.7	2926.1	2911.1	2901.2
30°	5744.3	4721.9	3470.5	2839.8	2740.2	2733.5	2740.2	2712.0	2667.2	2663.8
32.5°	6111.1	4687.0	3193.3	2643.9	2562.6	2547.7	2542.7	2502.8	2451.4	2436.5
35°	6443.0	4559.2	2911.1	2487.9	2393.3	2360.1	2383.3	2370.1	2323.6	2312.0
37.5°	6685.3	4321.9	2657.2	2350.2	2272.1	2263.8	2278.8	2283.8	2229.0	2217.4
40°	6848.0	3999.9	2439.8	2234.0	2248.9	2217.4	2167.6	2132.7	2116.1	2111.2
42.5°	6979.1	3664.6	2257.2	2179.2	2253.9	2162.6	2054.7	1998.3	2028.2	2041.4
45°	7130.1	3337.7	2104.5	2111.2	2229.0	2099.5	1976.7	1921.9	1933.6	1936.9
47.5°	7337.6	2939.4	1940.2	2001.6	2146.0	2056.4	1928.6	1850.6	1795.8	1770.9
50°	7624.7	2468.0	1769.3	1878.8	2064.7	2024.9	1853.9	1770.9	1669.7	1646.4
52.5°	7823.9	2028.2	1628.2	1775.9	1991.7	1961.8	1794.2	1686.3	1580.0	1560.1
55°	7716.0	1684.6	1505.4	1661.4	1895.4	1883.8	1744.4	1600.0	1517.0	1500.4
57.5°	7176.6	1467.2	1410.8	1553.5	1777.6	1817.4	1678.0	1526.9	1467.2	1455.6
60°	6147.6	1331.1	1351.0	1480.5	1681.3	1751.0	1611.6	1487.1	1447.3	1439.0
62.5°	4770.0	1239.8	1306.2	1427.4	1606.6	1704.5	1575.1	1482.1	1467.2	1457.2
65°	3417.4	1166.8	1258.1	1374.2	1538.6	1661.4	1561.8	1475.5	1478.8	1470.5
67.5°	2321.9	1102.0	1200.0	1314.5	1472.2	1623.2	1543.5	1452.2	1493.7	1483.8
70°	1624.9	1039.0	1131.9	1238.1	1389.2	1570.1	1510.3	1417.4	1414.1	1374.2
72.5°	1268.0	956.0	1039.0	1131.9	1283.0	1495.4	1444.0	1339.4	1284.6	1243.1
73°	1209.9	936.1	1015.7	1108.7	1259.7	1477.1	1425.7	1317.8	1256.4	1218.2
75°	1000.8	849.8	922.8	1005.8	1160.1	1390.8	1336.1	1219.9	1141.9	1118.6
77.5°	786.7	727.0	796.7	871.3	1022.4	1264.7	1203.3	1092.1	1048.9	1029.0
80°	582.6	602.5	663.9	730.3	886.3	1130.3	1075.5	964.3	1156.8	1108.7
82.5°	409.9	456.4	512.9	572.6	743.6	999.1	932.8	818.2	846.5	703.7
85°	242.3	298.7	351.9	403.3	536.1	828.2	770.1	652.3	534.4	509.5
87.5°	141.1	166.0	180.9	234.0	368.5	624.1	542.7	483.0	277.2	187.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)