

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: P193274

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193274
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-06-LED-E1-T4FT-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 34638.5 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 333
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

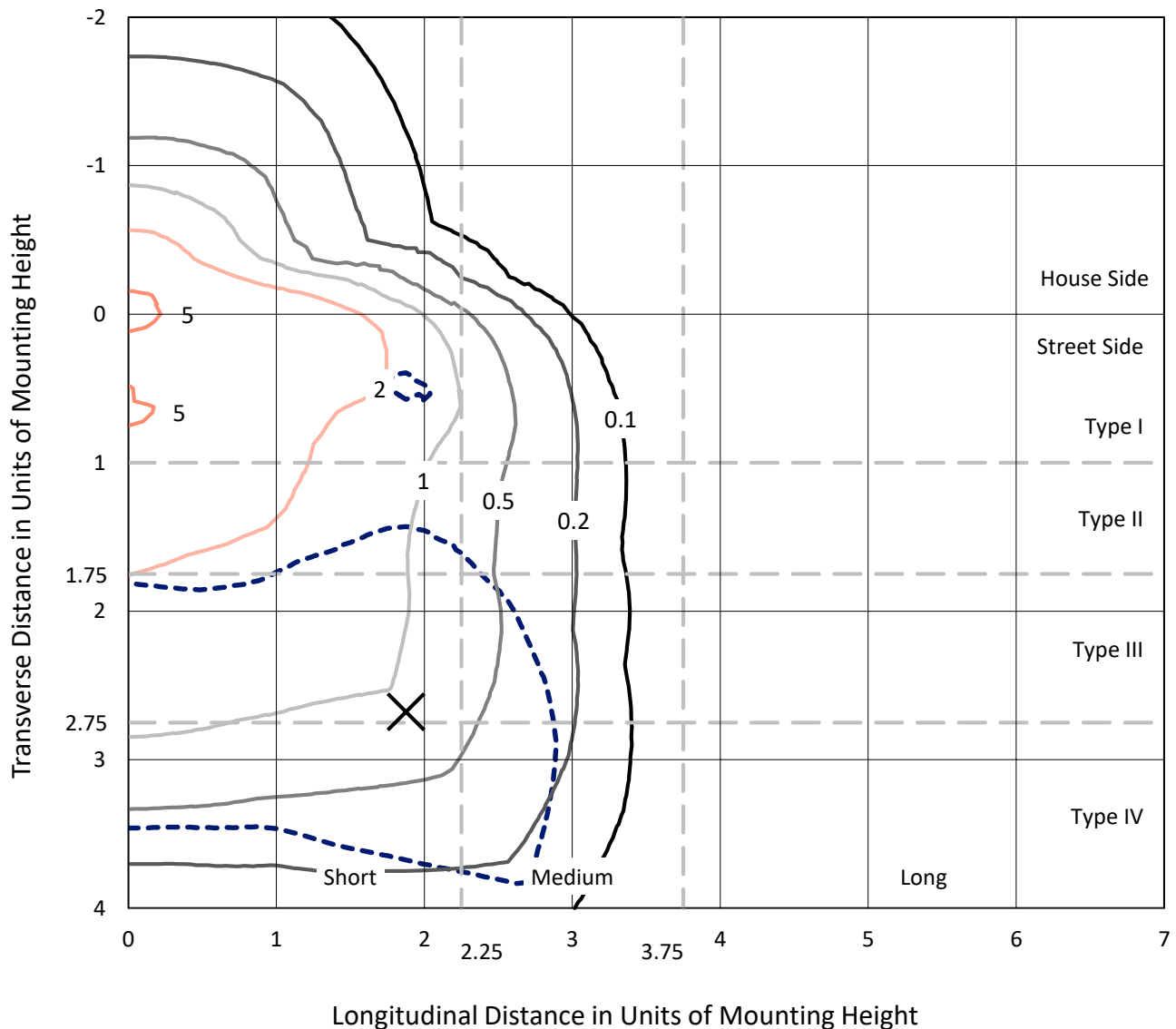


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

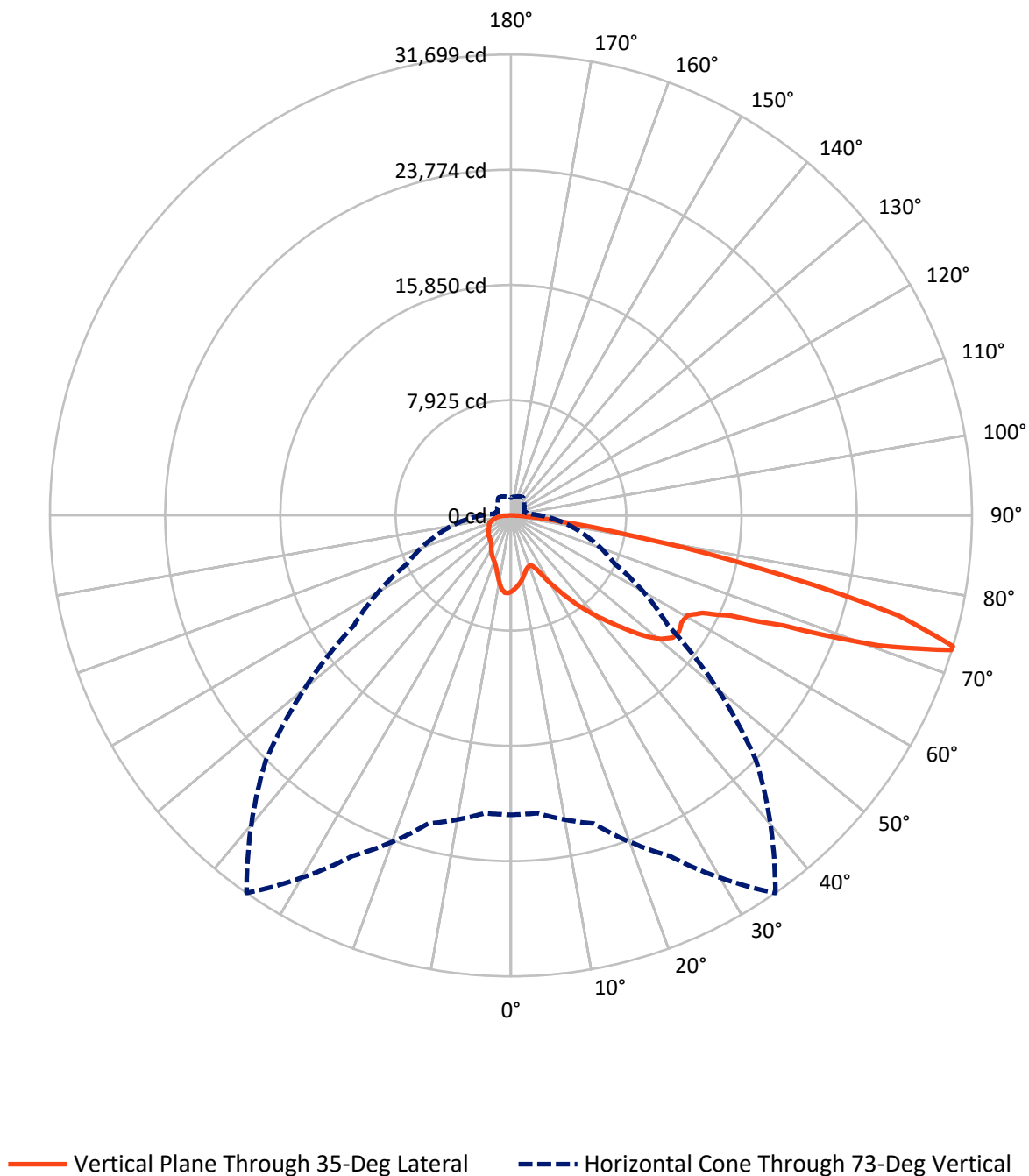


Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6606.5	0.0	6606.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	28031.9	0.0	28031.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	34638.5	0.0	34638.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.3	1.4
10°-20°	1181.2	3.4
20°-30°	1909.7	5.5
30°-40°	3202.2	9.2
40°-50°	4936.1	14.3
50°-60°	6622.3	19.1
60°-70°	8822.3	25.5
70°-80°	6728.7	19.4
80°-90°	762.7	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°	34638.5	100.0
0°-180°	34638.5	100.0

Coefficient of Utilization



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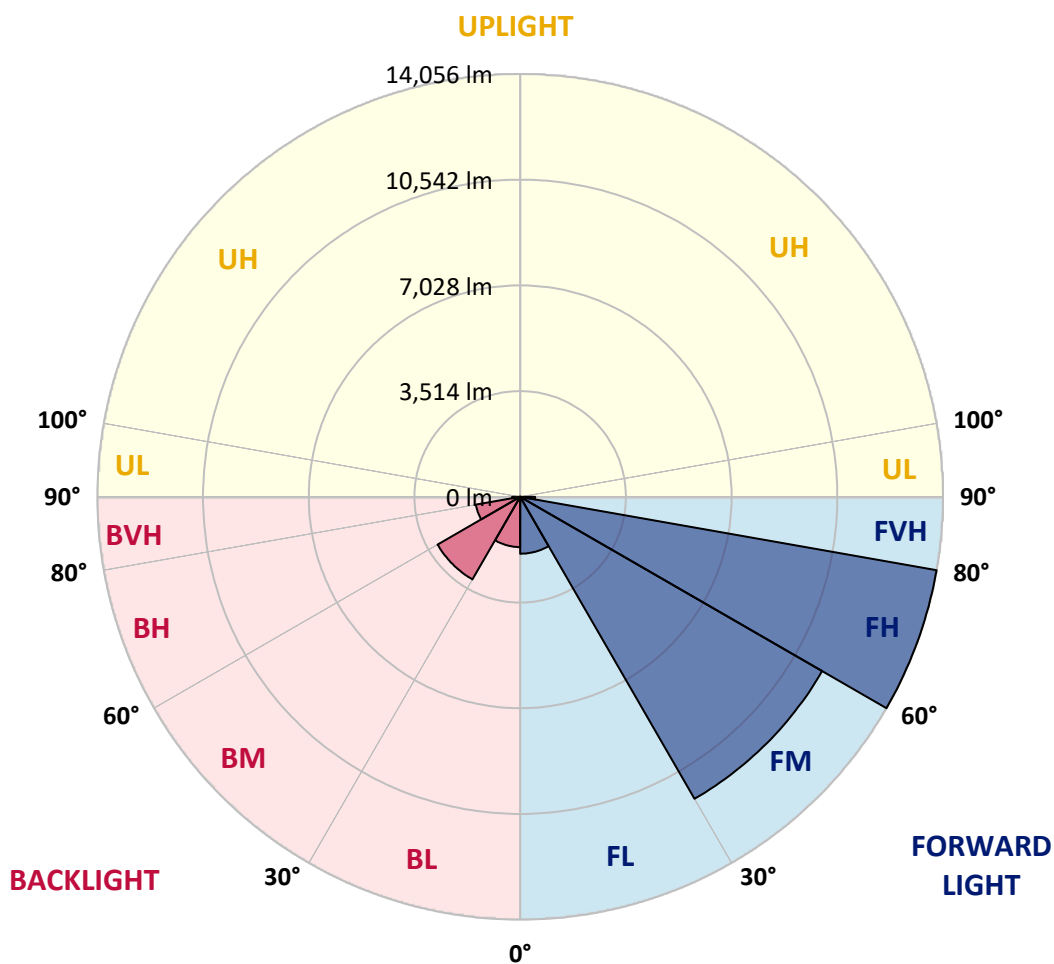
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1892.4	5.5			
FM	(30°-60°)	11590.2	33.5			
FH	(60°-80°)	14056.3	40.6			G5
FVH	(80°-90°)	493.0	1.4			G3/500
BL	(0°-30°)	1671.8	4.8	B3/2500		
BM	(30°-60°)	3170.4	9.2	B3/5000		
BH	(60°-80°)	1494.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	269.7	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°	5228.0	5228.0	5228.0	5228.0	5228.0	5228.0	5228.0	5228.0	5228.0	5228.0	5228.0
2.5°	5021.8	5031.7	5020.1	5035.1	5060.1	5086.7	5104.9	5131.6	5161.5	5203.0	5213.1
5°	4785.5	4800.6	4800.6	4827.2	4875.3	4918.7	4958.5	5001.8	5065.0	5136.5	5164.8
7.5°	4526.1	4534.4	4549.3	4589.3	4659.2	4720.6	4777.3	4847.1	4933.6	5028.4	5078.3
10°	4213.4	4224.9	4248.3	4304.9	4399.7	4484.4	4566.0	4662.4	4772.2	4890.3	4953.6
12.5°	3992.2	3988.8	3998.8	4040.4	4123.6	4226.7	4344.8	4467.8	4602.5	4740.6	4817.1
15°	3917.3	3899.0	3860.6	3850.8	3895.6	3998.8	4135.1	4286.6	4448.0	4614.2	4709.1
17.5°	3963.8	3932.2	3827.5	3751.0	3744.4	3822.4	3967.2	4136.9	4323.2	4526.1	4644.2
20°	4256.6	4181.8	3923.9	3746.0	3684.4	3722.7	3849.1	4028.7	4248.3	4517.8	4669.0
22.5°	4956.9	4847.1	4299.9	3968.9	3760.9	3714.4	3809.1	4000.4	4256.6	4620.9	4813.9
25°	5976.6	5820.1	4945.3	4524.4	4095.2	3847.4	3869.1	4065.3	4374.7	4860.4	5093.3
27.5°	6781.6	6680.1	5788.5	5307.9	4704.0	4206.7	4063.7	4228.4	4615.8	5252.9	5490.9
30°	7260.8	7199.1	6690.2	6196.1	5480.9	4778.9	4436.3	4534.4	4993.4	5796.9	5993.2
32.5°	7816.3	7779.7	7530.1	7076.0	6319.2	5530.7	5026.8	4991.8	5499.1	6450.5	6540.5
35°	8391.7	8380.1	8233.8	7907.7	7219.1	6522.1	5810.2	5574.0	6049.6	7129.2	7072.7
37.5°	8927.3	8907.5	8822.5	8633.0	8160.6	7586.8	6608.6	6171.2	6643.5	7777.9	7526.9
40°	9913.7	9757.4	9466.3	9323.3	9112.0	8483.2	7242.4	6728.4	7258.9	8396.8	7919.3
42.5°	11116.4	10861.9	10319.6	10123.4	10093.4	9190.3	7674.8	7269.0	7879.4	9010.6	8305.3
45°	12062.9	11823.4	11356.0	11108.1	11217.8	9830.6	8109.0	7846.2	8518.2	9654.2	8702.8
47.5°	13072.6	12696.6	12077.8	12152.7	12392.1	10436.1	8551.5	8466.6	9218.5	10374.5	9196.9
50°	13109.2	12821.3	12550.3	12997.7	13370.3	10993.3	9105.3	9117.0	10075.2	11281.1	9853.9
52.5°	12348.9	12287.4	12718.3	13421.9	13959.2	11434.1	9735.8	9789.0	11171.3	12322.4	10575.8
55°	12082.9	12012.9	12510.3	13273.8	14038.9	11798.4	10419.4	10515.8	12497.0	13420.2	11279.4
57.5°	12731.6	12576.9	12610.1	13204.0	13844.4	12197.6	11164.6	11359.2	13937.5	14379.9	11731.8
60°	14544.6	14213.6	13584.9	13569.9	13949.1	12796.5	12026.2	12264.2	15434.5	14839.0	11555.6
62.5°	17087.9	16757.0	15579.3	14812.5	14755.9	13784.4	13084.3	13147.3	16299.6	14217.0	10479.3
65°	19840.8	19544.8	18229.1	17146.2	16623.9	15421.3	14313.4	13541.6	16016.8	12505.4	8596.4
67.5°	23182.6	22864.9	21733.8	20734.1	20231.7	18062.7	15176.7	13164.0	14222.0	9687.6	6179.4
70°	25519.6	25195.3	24749.5	25559.6	26788.8	21873.4	15288.2	11628.7	10622.4	6438.9	3719.3
72.5°	22470.7	22319.3	23132.7	26544.3	31664.2	24185.6	13819.4	8466.6	6169.6	3418.2	2152.4
73°	20587.7	20554.4	21941.7	25854.0	31699.2	23829.7	13175.7	7869.5	5291.2	3024.1	1967.8
75°	9296.7	9564.4	12605.1	19747.7	27540.7	19636.3	9273.4	4514.4	2989.2	2089.2	1485.4
77.5°	2234.0	2327.1	3943.9	9378.2	17392.3	11701.8	4201.7	2232.2	1911.3	1475.4	1084.5
80°	951.4	983.2	1518.7	3464.8	8188.9	4712.4	1936.2	1495.4	1322.4	1029.7	760.1
82.5°	529.0	562.2	861.6	1571.9	3305.1	1606.8	1181.0	1041.2	869.9	620.5	494.1
85°	299.4	317.7	504.0	878.2	1400.6	645.4	706.9	691.9	490.7	319.4	242.9
87.5°	141.4	153.1	242.9	407.5	548.9	252.8	359.3	395.8	307.7	194.6	126.4
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°	5228.0	5228.0	5228.0	5228.0	5228.0	5228.0	5228.0	5228.0	5228.0	5228.0
2.5°	5224.7	5254.6	5289.6	5307.9	5324.5	5344.4	5364.4	5364.4	5367.8	5369.4
5°	5188.0	5249.7	5304.5	5327.8	5332.8	5332.8	5327.8	5301.3	5277.9	5287.9
7.5°	5111.5	5201.4	5247.9	5239.6	5176.4	5103.3	5041.8	4966.8	4928.5	4921.9
10°	5001.8	5104.9	5113.3	5030.1	4873.7	4717.4	4587.6	4461.2	4401.3	4386.3
12.5°	4880.4	4975.2	4921.9	4750.6	4499.4	4271.6	4106.9	3978.7	3922.3	3907.3
15°	4782.3	4847.1	4712.4	4442.9	4126.8	3885.7	3749.2	3654.5	3614.6	3603.0
17.5°	4730.7	4743.9	4497.7	4133.5	3797.6	3596.3	3511.4	3466.5	3451.5	3443.2
20°	4755.6	4662.4	4293.3	3845.7	3528.1	3386.6	3366.8	3355.1	3351.7	3346.7
22.5°	4880.4	4637.5	4105.2	3573.0	3291.9	3230.2	3246.9	3245.2	3241.9	3238.7
25°	5103.3	4659.2	3922.3	3313.5	3093.9	3080.6	3110.5	3110.5	3097.2	3097.2
27.5°	5397.7	4704.0	3717.6	3067.2	2914.3	2915.9	2939.2	2932.5	2917.5	2907.6
30°	5757.0	4732.3	3478.2	2846.1	2746.2	2739.5	2746.2	2718.0	2673.0	2669.8
32.5°	6124.6	4697.4	3200.3	2649.7	2568.2	2553.3	2548.3	2508.4	2456.8	2441.8
35°	6457.2	4569.3	2917.5	2493.4	2398.6	2365.4	2388.6	2375.3	2328.8	2317.1
37.5°	6700.1	4331.5	2663.0	2355.3	2277.2	2268.9	2283.8	2288.9	2234.0	2222.4
40°	6863.1	4008.7	2445.2	2238.9	2253.9	2222.4	2172.4	2137.4	2120.8	2115.8
42.5°	6994.6	3672.7	2262.2	2184.0	2258.8	2167.3	2059.3	2002.7	2032.7	2046.0
45°	7145.9	3345.1	2109.1	2115.8	2234.0	2104.3	1981.1	1926.2	1937.8	1941.2
47.5°	7353.8	2945.8	1944.5	2006.0	2150.8	2060.9	1932.9	1854.6	1799.8	1774.8
50°	7641.6	2473.4	1773.2	1883.0	2069.3	2029.4	1858.0	1774.8	1673.5	1650.1
52.5°	7841.2	2032.7	1631.8	1779.9	1996.0	1966.1	1798.1	1690.0	1583.5	1563.6
55°	7733.1	1688.4	1508.7	1665.0	1899.6	1887.9	1748.2	1603.5	1520.4	1503.7
57.5°	7192.4	1470.4	1414.0	1557.0	1781.5	1821.5	1681.7	1530.2	1470.4	1458.8
60°	6161.1	1334.0	1354.0	1483.7	1685.0	1754.9	1615.2	1490.4	1450.5	1442.1
62.5°	4780.5	1242.5	1309.0	1430.5	1610.2	1708.3	1578.6	1485.4	1470.4	1460.5
65°	3425.0	1169.4	1260.9	1377.3	1541.9	1665.0	1565.2	1478.8	1482.1	1473.8
67.5°	2327.1	1104.5	1202.6	1317.4	1475.4	1626.8	1547.0	1455.5	1497.1	1487.0
70°	1628.4	1041.2	1134.4	1240.8	1392.3	1573.6	1513.7	1420.5	1417.2	1377.3
72.5°	1270.8	958.1	1041.2	1134.4	1285.8	1498.7	1447.1	1342.4	1287.5	1245.9
73°	1212.6	938.1	1018.0	1111.1	1262.5	1480.5	1428.9	1320.7	1259.2	1221.0
75°	1003.0	851.6	924.9	1008.0	1162.7	1393.9	1339.0	1222.6	1144.4	1121.1
77.5°	788.5	728.5	798.4	873.3	1024.7	1267.5	1206.0	1094.6	1051.3	1031.3
80°	583.9	603.7	665.4	731.9	888.3	1132.8	1077.9	966.4	1159.4	1111.1
82.5°	410.9	457.5	513.9	573.8	745.1	1001.4	934.8	820.1	848.3	705.3
85°	242.9	299.4	352.7	404.2	537.2	830.1	771.8	653.7	535.6	510.7
87.5°	141.4	166.3	181.3	234.6	369.3	625.4	543.9	484.0	277.7	187.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)