

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: P193283

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193283
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-05-LED-E1-T4FT-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 31754 lumens
Efficiency: N/A
Efficacy: 99.2 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): 320
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

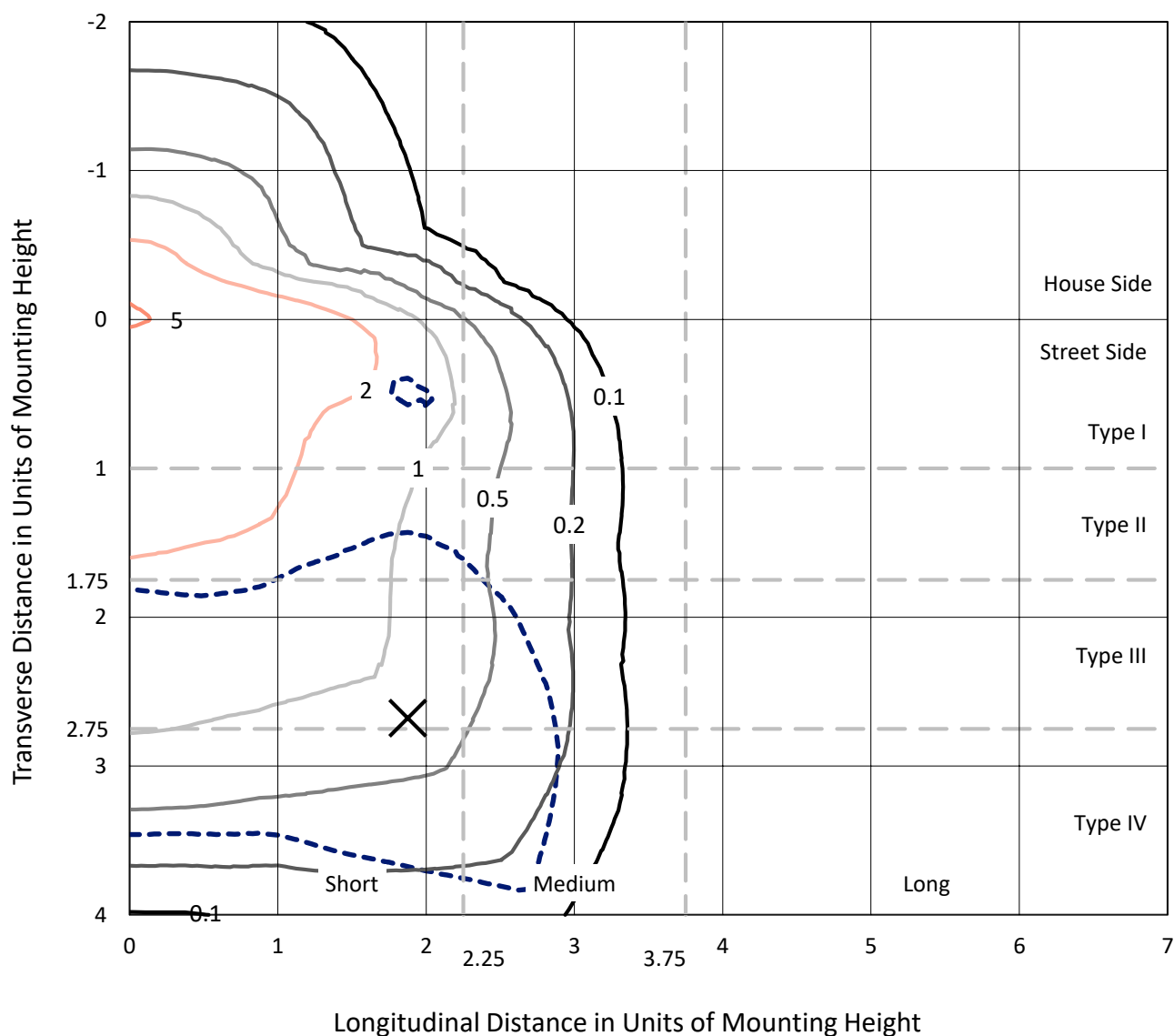


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

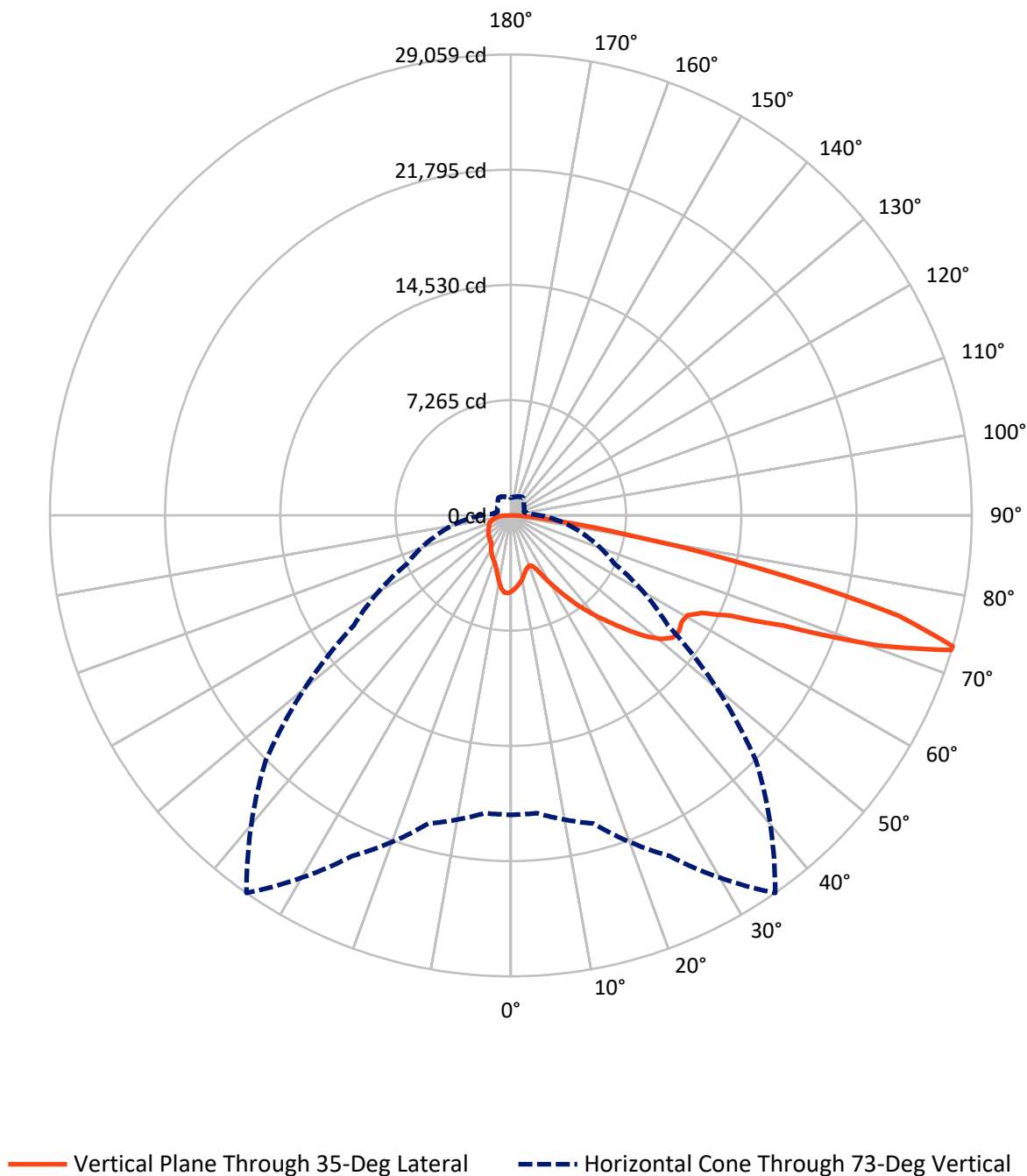


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6056.4	0.0	6056.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	25697.6	0.0	25697.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	31754.0	0.0	31754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.9	1.4
10°-20°	1082.9	3.4
20°-30°	1750.6	5.5
30°-40°	2935.6	9.2
40°-50°	4525.1	14.3
50°-60°	6070.9	19.1
60°-70°	8087.6	25.5
70°-80°	6168.4	19.4
80°-90°	699.2	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°	31754.0	100.0
0°-180°	31754.0	100.0

Coefficient of Utilization



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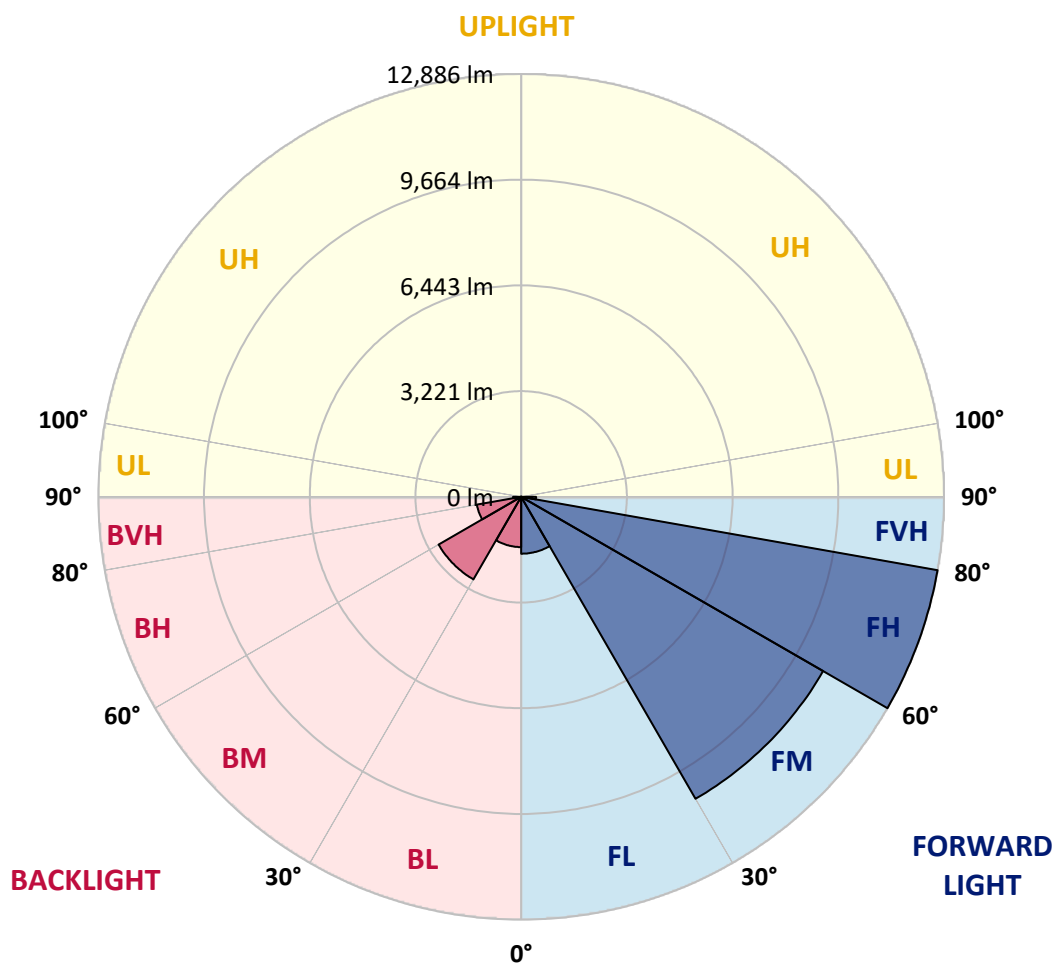
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1734.8	5.5			
FM	(30°-60°)	10625.1	33.5			
FH	(60°-80°)	12885.8	40.6			G5
FVH	(80°-90°)	451.9	1.4			G3/500
BL	(0°-30°)	1532.5	4.8	B3/2500		
BM	(30°-60°)	2906.4	9.2	B3/5000		
BH	(60°-80°)	1370.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	247.2	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°	4792.6	4792.6	4792.6	4792.6	4792.6	4792.6	4792.6	4792.6	4792.6	4792.6	4792.6
2.5°	4603.5	4612.7	4602.1	4615.7	4638.6	4663.0	4679.8	4704.2	4731.7	4769.8	4778.9
5°	4387.1	4400.8	4400.8	4425.2	4469.4	4509.0	4545.6	4585.3	4643.2	4708.7	4734.8
7.5°	4149.1	4156.8	4170.5	4207.1	4271.2	4327.5	4379.4	4443.5	4522.8	4609.6	4655.4
10°	3862.6	3873.1	3894.5	3946.3	4033.3	4111.1	4185.7	4274.2	4374.8	4483.1	4541.1
12.5°	3659.6	3656.7	3665.7	3703.9	3780.2	3874.7	3982.9	4095.8	4219.3	4345.9	4416.0
15°	3591.1	3574.3	3539.2	3530.0	3571.2	3665.7	3790.9	3929.6	4077.5	4230.0	4317.0
17.5°	3633.8	3604.8	3508.8	3438.6	3432.5	3504.2	3636.8	3792.4	3963.2	4149.1	4257.4
20°	3902.2	3833.5	3597.2	3434.0	3377.6	3412.7	3528.5	3693.3	3894.5	4141.6	4280.3
22.5°	4544.1	4443.5	3941.7	3638.4	3447.7	3405.1	3491.9	3667.3	3902.2	4236.1	4413.0
25°	5478.8	5335.5	4533.5	4147.7	3754.2	3527.0	3546.9	3726.9	4010.4	4455.7	4669.2
27.5°	6216.9	6123.9	5306.5	4865.9	4312.4	3856.5	3725.3	3876.2	4231.5	4815.5	5033.6
30°	6656.1	6599.6	6133.0	5680.2	5024.4	4381.0	4066.8	4156.8	4577.6	5314.2	5494.1
32.5°	7165.3	7131.8	6903.1	6486.8	5793.0	5070.1	4608.1	4576.1	5041.2	5913.4	5995.8
35°	7693.0	7682.3	7548.0	7249.3	6618.0	5979.0	5326.4	5109.8	5546.0	6535.6	6483.8
37.5°	8183.9	8165.7	8087.9	7914.0	7481.0	6954.9	6058.3	5657.2	6090.3	7130.3	6900.0
40°	9088.1	8944.8	8678.0	8547.0	8353.2	7776.8	6639.2	6168.1	6654.6	7697.6	7259.9
42.5°	10190.7	9957.5	9460.3	9280.4	9252.9	8424.9	7035.7	6663.7	7223.3	8260.2	7613.7
45°	11058.3	10838.7	10410.3	10183.1	10283.7	9012.0	7433.8	7192.9	7808.9	8850.3	7978.1
47.5°	11984.0	11639.4	11072.2	11140.7	11360.2	9567.1	7839.4	7761.6	8450.8	9510.6	8431.0
50°	12017.5	11753.7	11505.1	11915.4	12256.9	10077.8	8347.2	8357.8	9236.1	10341.7	9033.3
52.5°	11320.7	11264.2	11659.2	12304.2	12796.7	10482.0	8925.1	8973.9	10241.0	11296.2	9695.1
55°	11076.7	11012.6	11468.5	12168.4	12869.8	10815.9	9551.8	9640.3	11456.4	12302.7	10340.2
57.5°	11671.4	11529.6	11560.0	12104.4	12691.4	11181.9	10235.0	10413.4	12776.9	13182.4	10754.9
60°	13333.5	13030.0	12453.6	12439.9	12787.6	11730.8	11024.8	11242.9	14149.3	13603.4	10593.2
62.5°	15665.0	15361.6	14282.0	13579.0	13527.2	12636.6	11994.6	12052.6	14942.2	13033.1	9606.7
65°	18188.6	17917.2	16711.1	15718.4	15239.6	14137.0	13121.5	12413.9	14683.1	11464.0	7880.6
67.5°	21252.1	20960.9	19924.0	19007.5	18547.0	16558.6	13913.0	12067.8	13037.7	8880.8	5664.9
70°	23394.6	23097.2	22688.6	23431.2	24557.9	20052.1	14015.1	10660.3	9737.8	5902.7	3409.7
72.5°	20599.5	20460.8	21206.3	24333.9	29027.5	22171.7	12668.6	7761.6	5655.7	3133.5	1973.2
73°	18873.3	18842.9	20114.5	23701.1	29059.4	21845.3	12078.5	7214.2	4850.6	2772.2	1803.9
75°	8522.6	8768.0	11555.5	18103.2	25247.3	18001.1	8501.1	4138.5	2740.2	1915.2	1361.7
77.5°	2047.9	2133.3	3615.5	8597.2	15944.1	10727.5	3851.8	2046.4	1752.1	1352.5	994.3
80°	872.2	901.2	1392.2	3176.2	7506.9	4320.0	1774.9	1370.8	1212.2	943.9	696.8
82.5°	484.9	515.3	789.8	1441.0	3029.9	1473.1	1082.6	954.6	797.5	568.8	452.9
85°	274.5	291.2	462.0	805.1	1283.9	591.6	648.0	634.4	449.8	292.9	222.7
87.5°	129.6	140.3	222.7	373.5	503.2	231.7	329.4	363.0	282.1	178.4	116.0
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°	4792.6	4792.6	4792.6	4792.6	4792.6	4792.6	4792.6	4792.6	4792.6	4792.6
2.5°	4789.6	4817.0	4849.0	4865.9	4881.1	4899.4	4917.8	4917.8	4920.7	4922.2
5°	4756.0	4812.6	4862.8	4884.1	4888.7	4888.7	4884.1	4859.8	4838.4	4847.7
7.5°	4685.9	4768.3	4811.0	4803.4	4745.3	4678.3	4621.8	4553.3	4518.2	4512.1
10°	4585.3	4679.8	4687.4	4611.2	4467.8	4324.5	4205.6	4089.7	4034.8	4021.1
12.5°	4473.9	4560.9	4512.1	4355.1	4124.7	3915.9	3764.8	3647.5	3595.6	3581.9
15°	4384.0	4443.5	4320.0	4072.9	3783.2	3562.1	3437.1	3350.1	3313.5	3302.9
17.5°	4336.7	4348.9	4123.2	3789.3	3481.3	3296.8	3219.0	3177.8	3164.1	3156.5
20°	4359.6	4274.2	3935.7	3525.5	3234.3	3104.6	3086.3	3075.6	3072.6	3068.0
22.5°	4473.9	4251.4	3763.3	3275.4	3017.7	2961.3	2976.5	2975.0	2972.0	2968.9
25°	4678.3	4271.2	3595.6	3037.5	2836.3	2824.1	2851.5	2851.5	2839.3	2839.3
27.5°	4948.3	4312.4	3408.2	2811.9	2671.6	2673.1	2694.5	2688.4	2674.6	2665.5
30°	5277.6	4338.2	3188.5	2609.0	2517.6	2511.5	2517.6	2491.6	2450.4	2447.4
32.5°	5614.7	4306.2	2933.8	2429.2	2354.4	2340.7	2336.1	2299.5	2252.3	2238.5
35°	5919.5	4188.8	2674.6	2285.8	2198.9	2168.4	2189.7	2177.5	2134.8	2124.1
37.5°	6142.2	3970.8	2441.3	2159.2	2087.5	2080.0	2093.6	2098.3	2047.9	2037.2
40°	6291.5	3674.9	2241.6	2052.4	2066.2	2037.2	1991.5	1959.4	1944.2	1939.7
42.5°	6412.1	3367.0	2073.8	2002.1	2070.8	1986.9	1887.8	1836.0	1863.4	1875.6
45°	6550.8	3066.5	1933.6	1939.7	2047.9	1929.0	1816.1	1765.8	1776.4	1779.5
47.5°	6741.4	2700.6	1782.6	1839.0	1971.7	1889.3	1771.8	1700.2	1650.0	1627.1
50°	7005.2	2267.4	1625.6	1726.2	1897.0	1860.3	1703.3	1627.1	1534.0	1512.7
52.5°	7188.2	1863.4	1495.9	1631.6	1829.9	1802.4	1648.4	1549.3	1451.7	1433.4
55°	7089.1	1547.7	1383.0	1526.4	1741.4	1730.7	1602.7	1470.0	1393.7	1378.6
57.5°	6593.6	1347.9	1296.2	1427.3	1633.1	1669.7	1541.6	1402.9	1347.9	1337.4
60°	5648.1	1222.9	1241.3	1360.2	1544.7	1608.8	1480.7	1366.3	1329.6	1322.0
62.5°	4382.5	1139.0	1200.1	1311.4	1476.1	1566.0	1447.1	1361.7	1347.9	1338.9
65°	3139.7	1072.0	1155.9	1262.6	1413.6	1526.4	1434.9	1355.6	1358.6	1351.0
67.5°	2133.3	1012.5	1102.5	1207.8	1352.5	1491.3	1418.0	1334.3	1372.4	1363.2
70°	1492.8	954.6	1039.9	1137.6	1276.3	1442.5	1387.6	1302.3	1299.2	1262.6
72.5°	1165.0	878.3	954.6	1039.9	1178.7	1373.9	1326.6	1230.6	1180.2	1142.1
73°	1111.6	860.0	933.2	1018.7	1157.4	1357.1	1309.9	1210.7	1154.4	1119.3
75°	919.5	780.7	847.9	924.2	1066.0	1277.8	1227.5	1120.8	1049.1	1027.8
77.5°	722.8	667.9	731.9	800.6	939.3	1162.0	1105.4	1003.3	963.6	945.4
80°	535.3	553.5	610.0	671.0	814.3	1038.4	988.1	886.0	1062.9	1018.7
82.5°	376.6	419.3	471.2	526.1	683.1	918.0	857.0	751.8	777.7	646.6
85°	222.7	274.5	323.3	370.5	492.5	760.9	707.6	599.3	491.0	468.1
87.5°	129.6	152.5	166.2	215.0	338.4	573.4	498.7	443.7	254.7	172.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)