

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: P192343

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192343
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 32832 lumens
Efficiency: N/A
Efficacy: 102.6 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

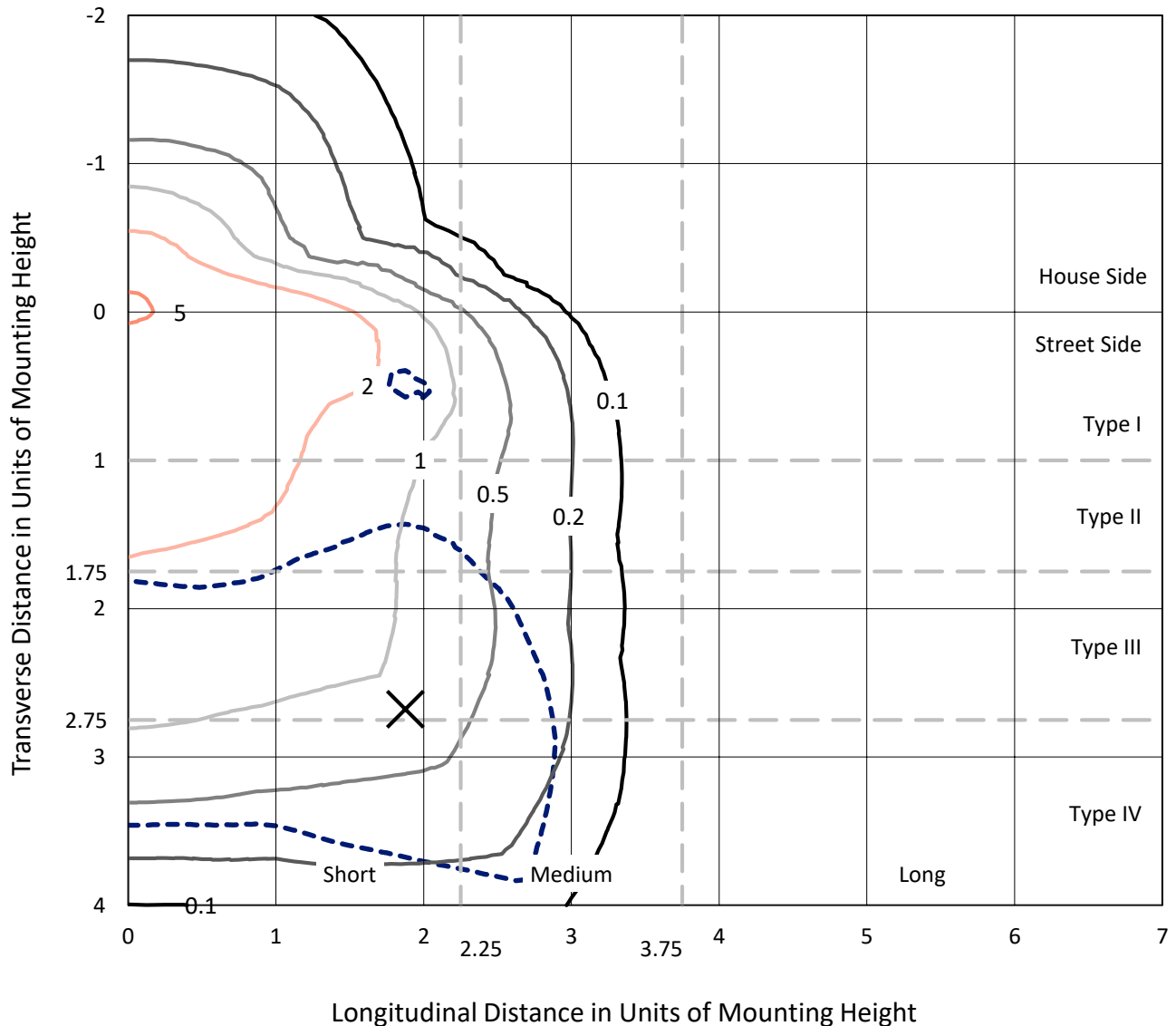


REPORT NUMBER: P192343

CATALOG NUMBER: GLEON-AF-05-LED-E1-T4FT-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

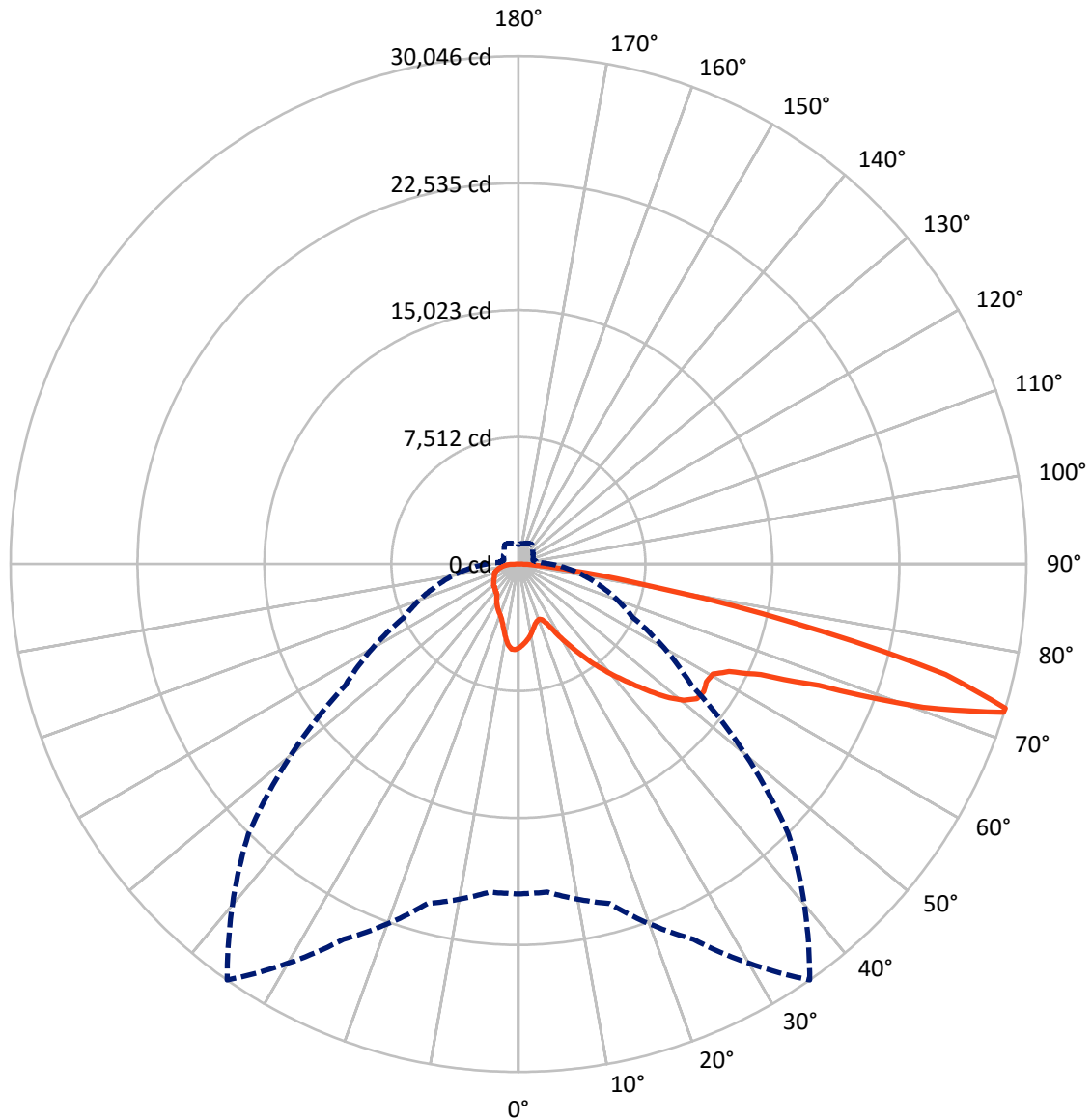


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P192343

CATALOG NUMBER: GLEON-AF-05-LED-E1-T4FT-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P192343

CATALOG NUMBER: GLEON-AF-05-LED-E1-T4FT-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6262.0	0.0	6262.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	26570.0	0.0	26570.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	32832.0	0.0	32832.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.6	1.4
10°-20°	1119.6	3.4
20°-30°	1810.1	5.5
30°-40°	3035.2	9.2
40°-50°	4678.7	14.3
50°-60°	6276.9	19.1
60°-70°	8362.2	25.5
70°-80°	6377.8	19.4
80°-90°	722.9	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°	32832.0	100.0
0°-180°	32832.0	100.0



REPORT NUMBER: P192343

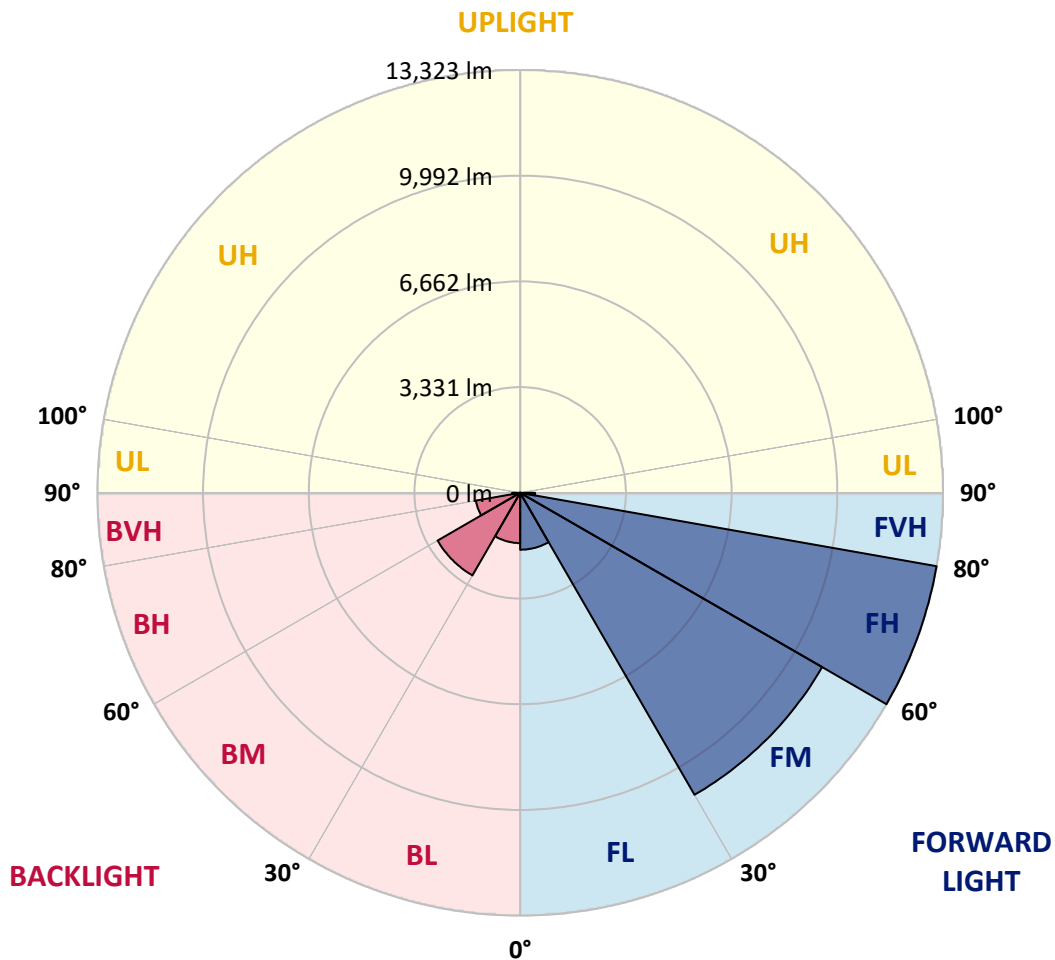
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1793.7	5.5			
FM	(30°-60°)	10985.8	33.5			
FH	(60°-80°)	13323.2	40.6			G5
FVH	(80°-90°)	467.3	1.4			G3/500
BL	(0°-30°)	1584.6	4.8	B3/2500		
BM	(30°-60°)	3005.0	9.2	B3/5000		
BH	(60°-80°)	1416.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	255.6	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





REPORT NUMBER: P192343

CATALOG NUMBER: GLEON-AF-05-LED-E1-T4FT-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4955.4	4955.4	4955.4	4955.4	4955.4	4955.4	4955.4	4955.4	4955.4	4955.4	4955.4
2.5°	4759.9	4769.3	4758.3	4772.5	4796.1	4821.4	4838.7	4863.9	4892.3	4931.7	4941.2
5°	4536.0	4550.2	4550.2	4575.4	4621.1	4662.1	4700.0	4740.9	4800.9	4868.7	4895.5
7.5°	4290.0	4297.9	4312.1	4349.9	4416.2	4474.5	4528.1	4594.3	4676.3	4766.2	4813.5
10°	3993.6	4004.7	4026.7	4080.3	4170.2	4250.6	4327.9	4419.3	4523.4	4635.3	4695.2
12.5°	3783.9	3780.8	3790.2	3829.7	3908.5	4006.2	4118.2	4234.8	4362.6	4493.4	4565.9
15°	3713.0	3695.6	3659.4	3649.9	3692.5	3790.2	3919.5	4063.0	4215.9	4373.6	4463.5
17.5°	3757.1	3727.2	3627.8	3555.3	3549.0	3623.1	3760.3	3921.1	4097.7	4290.0	4402.0
20°	4034.6	3963.7	3719.3	3550.6	3492.2	3528.5	3648.3	3818.6	4026.7	4282.1	4425.6
22.5°	4698.4	4594.3	4075.6	3761.9	3564.8	3520.6	3610.5	3791.8	4034.6	4379.9	4562.8
25°	5664.9	5516.7	4687.3	4288.5	3881.7	3646.8	3667.3	3853.3	4146.6	4606.9	4827.7
27.5°	6427.9	6331.8	5486.7	5031.0	4458.7	3987.3	3851.7	4007.8	4375.2	4979.0	5204.5
30°	6882.0	6823.7	6341.2	5873.0	5195.0	4529.7	4204.9	4297.9	4733.1	5494.6	5680.6
32.5°	7408.6	7373.9	7137.4	6707.0	5989.6	5242.3	4764.6	4731.5	5212.4	6114.2	6199.3
35°	7954.1	7943.1	7804.4	7495.3	6842.6	6182.0	5507.2	5283.3	5734.2	6757.5	6703.9
37.5°	8461.8	8442.9	8362.5	8182.7	7735.0	7191.0	6264.0	5849.3	6297.1	7372.4	7134.3
40°	9396.8	9248.6	8972.6	8837.0	8636.8	8040.8	6864.7	6377.5	6880.4	7958.9	7506.4
42.5°	10536.7	10295.4	9781.5	9595.4	9567.0	8710.9	7274.6	6889.9	7468.5	8540.6	7872.1
45°	11433.8	11206.7	10763.7	10528.8	10632.8	9317.9	7686.1	7437.0	8074.0	9150.8	8249.0
47.5°	12390.8	12034.5	11448.0	11518.9	11745.9	9891.8	8105.5	8025.1	8737.7	9833.5	8717.2
50°	12425.5	12152.7	11895.7	12319.8	12673.0	10420.0	8630.5	8641.5	9549.7	10692.7	9340.0
52.5°	11704.9	11646.6	12055.0	12721.9	13231.1	10837.8	9228.1	9278.5	10588.7	11679.7	10024.3
55°	11452.7	11386.5	11857.9	12581.6	13306.8	11183.1	9876.1	9967.5	11845.3	12720.3	10691.2
57.5°	12067.6	11920.9	11952.5	12515.3	13122.3	11561.5	10582.4	10766.9	13210.6	13630.0	11120.0
60°	13786.1	13472.4	12876.4	12862.2	13221.7	12129.1	11399.1	11624.5	14629.6	14065.2	10952.9
62.5°	16196.8	15883.0	14766.8	14039.9	13986.3	13065.6	12401.8	12461.7	15449.5	13475.5	9932.8
65°	18806.1	18525.5	17278.4	16252.0	15756.9	14617.0	13567.0	12835.4	15181.4	11853.2	8148.1
67.5°	21973.6	21672.4	20600.3	19652.8	19176.6	17120.7	14385.2	12477.5	13480.2	9182.3	5857.2
70°	24188.8	23881.3	23458.8	24226.6	25391.7	20732.8	14490.9	11022.3	10068.4	6103.2	3525.4
72.5°	21298.8	21155.3	21926.3	25160.0	30012.9	22924.3	13098.7	8025.1	5847.7	3240.0	2040.2
73°	19514.0	19482.5	20797.4	24505.7	30046.0	22586.9	12488.5	7459.1	5015.3	2866.3	1865.2
75°	8811.8	9065.7	11947.8	18717.8	26104.4	18612.2	8789.7	4279.0	2833.2	1980.3	1407.9
77.5°	2117.4	2205.7	3738.2	8889.1	16485.3	11091.6	3982.6	2115.8	1811.6	1398.5	1028.0
80°	901.8	931.8	1439.5	3284.1	7761.8	4466.6	1835.2	1417.4	1253.4	975.9	720.5
82.5°	501.4	532.9	816.7	1489.9	3132.8	1523.0	1119.4	987.0	824.6	588.1	468.3
85°	283.8	301.1	477.7	832.5	1327.5	611.7	670.1	655.9	465.1	302.7	230.2
87.5°	134.0	145.1	230.2	386.3	520.3	239.6	340.6	375.2	291.7	184.5	119.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P192343

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4955.4	4955.4	4955.4	4955.4	4955.4	4955.4	4955.4	4955.4	4955.4	4955.4
2.5°	4952.2	4980.6	5013.7	5031.0	5046.8	5065.7	5084.7	5084.7	5087.8	5089.4
5°	4917.5	4975.9	5027.9	5050.0	5054.7	5054.7	5050.0	5024.7	5002.7	5012.1
7.5°	4845.0	4930.1	4974.3	4966.4	4906.5	4837.1	4778.8	4707.8	4671.6	4665.3
10°	4740.9	4838.7	4846.6	4767.7	4619.5	4471.3	4348.4	4228.5	4171.8	4157.6
12.5°	4625.9	4715.7	4665.3	4502.9	4264.8	4048.8	3892.7	3771.3	3717.7	3703.5
15°	4532.8	4594.3	4466.6	4211.2	3911.6	3683.0	3553.7	3463.9	3426.0	3415.0
17.5°	4484.0	4496.6	4263.2	3917.9	3599.5	3408.7	3328.3	3285.7	3271.5	3263.6
20°	4507.6	4419.3	4069.3	3645.2	3344.0	3210.0	3191.1	3180.1	3176.9	3172.2
22.5°	4625.9	4395.7	3891.1	3386.6	3120.2	3061.8	3077.6	3076.0	3072.9	3069.7
25°	4837.1	4416.2	3717.7	3140.7	2932.5	2919.9	2948.3	2948.3	2935.7	2935.7
27.5°	5116.2	4458.7	3523.8	2907.3	2762.3	2763.8	2785.9	2779.6	2765.4	2756.0
30°	5456.7	4485.5	3296.7	2697.6	2603.0	2596.7	2603.0	2576.2	2533.7	2530.5
32.5°	5805.2	4452.4	3033.4	2511.6	2434.3	2420.1	2415.4	2377.6	2328.7	2314.5
35°	6120.5	4331.0	2765.4	2363.4	2273.5	2242.0	2264.1	2251.4	2207.3	2196.3
37.5°	6350.7	4105.6	2524.2	2232.5	2158.4	2150.5	2164.7	2169.5	2117.4	2106.4
40°	6505.2	3799.7	2317.7	2122.2	2136.3	2106.4	2059.1	2026.0	2010.2	2005.5
42.5°	6629.8	3481.2	2144.2	2070.1	2141.1	2054.4	1951.9	1898.3	1926.6	1939.3
45°	6773.2	3170.6	1999.2	2005.5	2117.4	1994.4	1877.8	1825.7	1836.8	1839.9
47.5°	6970.3	2792.2	1843.1	1901.4	2038.6	1953.5	1832.1	1757.9	1705.9	1682.3
50°	7243.1	2344.5	1680.7	1784.8	1961.3	1923.5	1761.1	1682.3	1586.1	1564.0
52.5°	7432.3	1926.6	1546.7	1687.0	1892.0	1863.6	1704.3	1601.9	1501.0	1482.0
55°	7329.8	1600.3	1430.0	1578.2	1800.5	1789.5	1657.0	1519.9	1441.0	1425.3
57.5°	6817.4	1393.7	1340.1	1475.7	1688.6	1726.4	1594.0	1450.5	1393.7	1382.7
60°	5839.9	1264.5	1283.4	1406.4	1597.1	1663.4	1530.9	1412.7	1374.8	1366.9
62.5°	4531.3	1177.7	1240.8	1355.9	1526.2	1619.2	1496.2	1407.9	1393.7	1384.3
65°	3246.3	1108.4	1195.1	1305.5	1461.5	1578.2	1483.6	1401.6	1404.8	1396.9
67.5°	2205.7	1046.9	1139.9	1248.7	1398.5	1542.0	1466.3	1379.6	1419.0	1409.5
70°	1543.5	987.0	1075.3	1176.2	1319.6	1491.5	1434.7	1346.4	1343.3	1305.5
72.5°	1204.6	908.1	987.0	1075.3	1218.7	1420.5	1371.7	1272.3	1220.3	1180.9
73°	1149.4	889.2	964.9	1053.2	1196.7	1403.2	1354.3	1251.8	1193.5	1157.3
75°	950.7	807.2	876.6	955.4	1102.1	1321.2	1269.2	1158.8	1084.7	1062.7
77.5°	747.3	690.6	756.8	827.7	971.2	1201.4	1143.1	1037.4	996.4	977.5
80°	553.4	572.3	630.7	693.7	841.9	1073.7	1021.7	916.0	1098.9	1053.2
82.5°	389.4	433.6	487.2	543.9	706.3	949.1	886.1	777.3	804.1	668.5
85°	230.2	283.8	334.2	383.1	509.3	786.7	731.6	619.6	507.7	484.0
87.5°	134.0	157.7	171.9	222.3	350.0	592.8	515.6	458.8	263.3	178.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)