

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: P269356

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269356
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 28524.8 lumens
Efficiency: N/A
Efficacy: 89.1 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 - G4

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

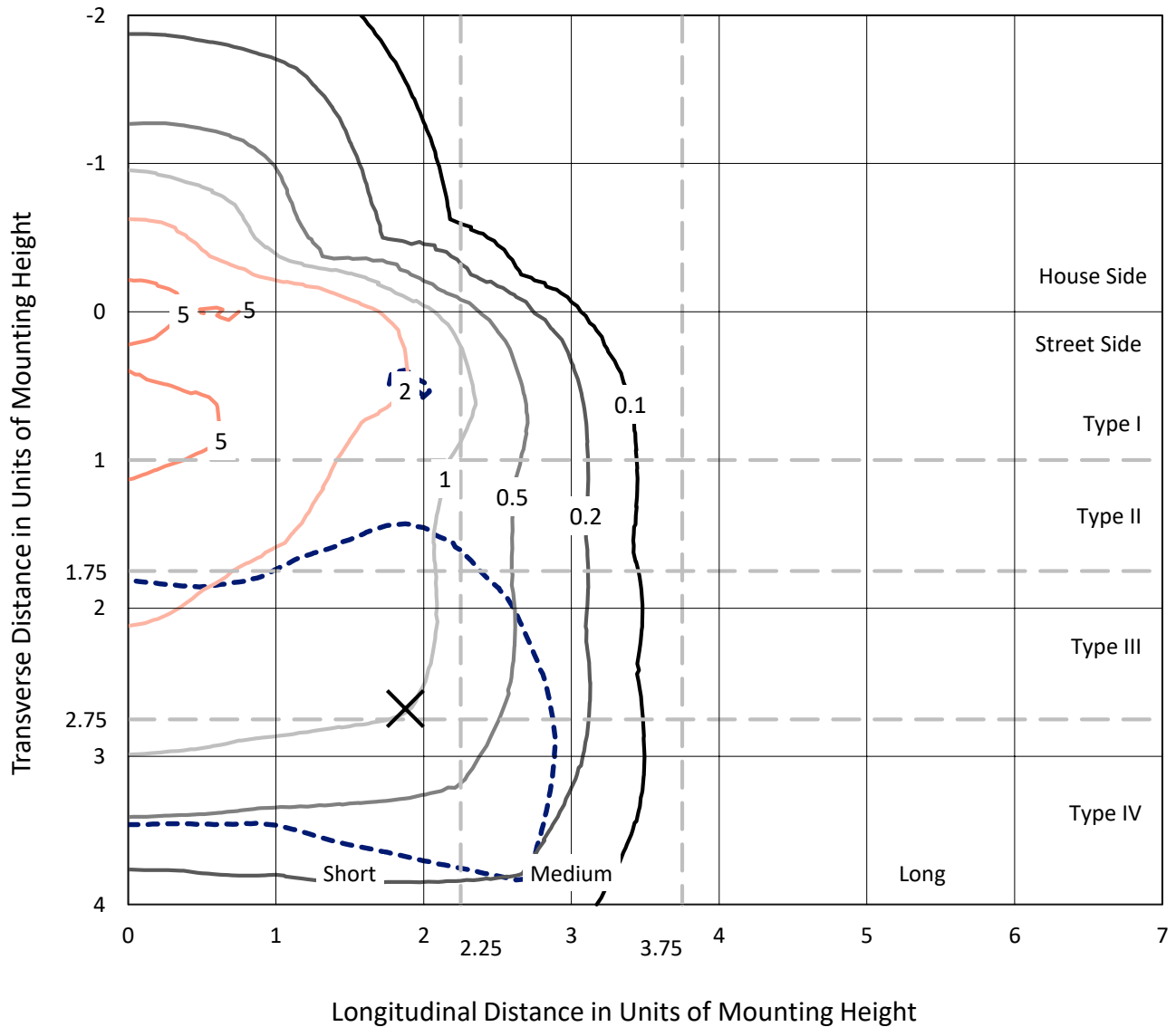


REPORT NUMBER: P269356

CATALOG NUMBER: GLEON-AF-05-LED-E1-T4FT-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

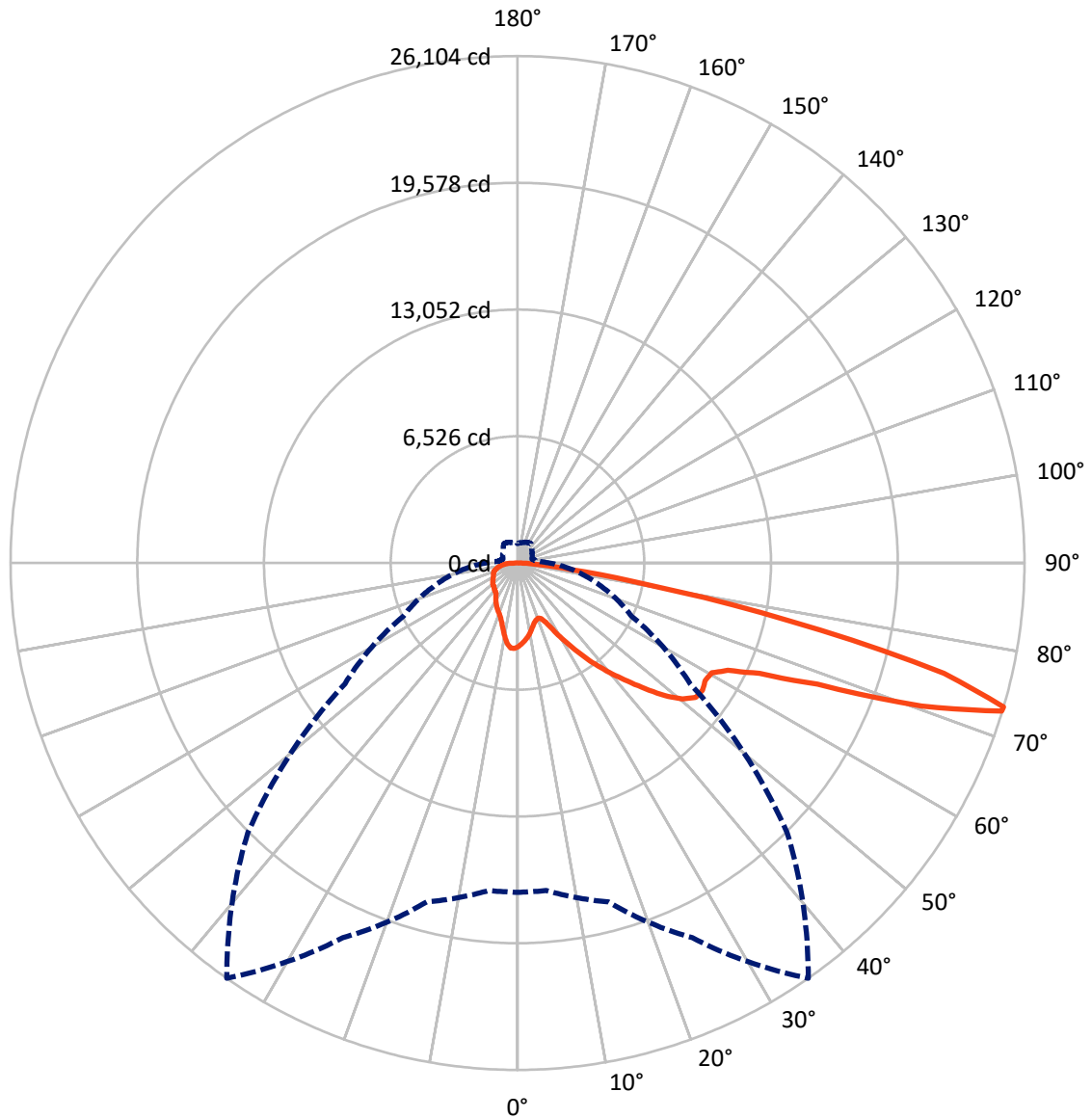
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269356
CATALOG NUMBER: GLEON-AF-05-LED-E1-T4FT-7027-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269356

CATALOG NUMBER: GLEON-AF-05-LED-E1-T4FT-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5440.5	0.0	5440.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	23084.3	0.0	23084.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	28524.8	0.0	28524.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.8	1.4
10°-20°	972.8	3.4
20°-30°	1572.6	5.5
30°-40°	2637.0	9.2
40°-50°	4064.9	14.3
50°-60°	5453.5	19.1
60°-70°	7265.1	25.5
70°-80°	5541.1	19.4
80°-90°	628.1	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°	28524.8	100.0
0°-180°	28524.8	100.0



REPORT NUMBER: P269356

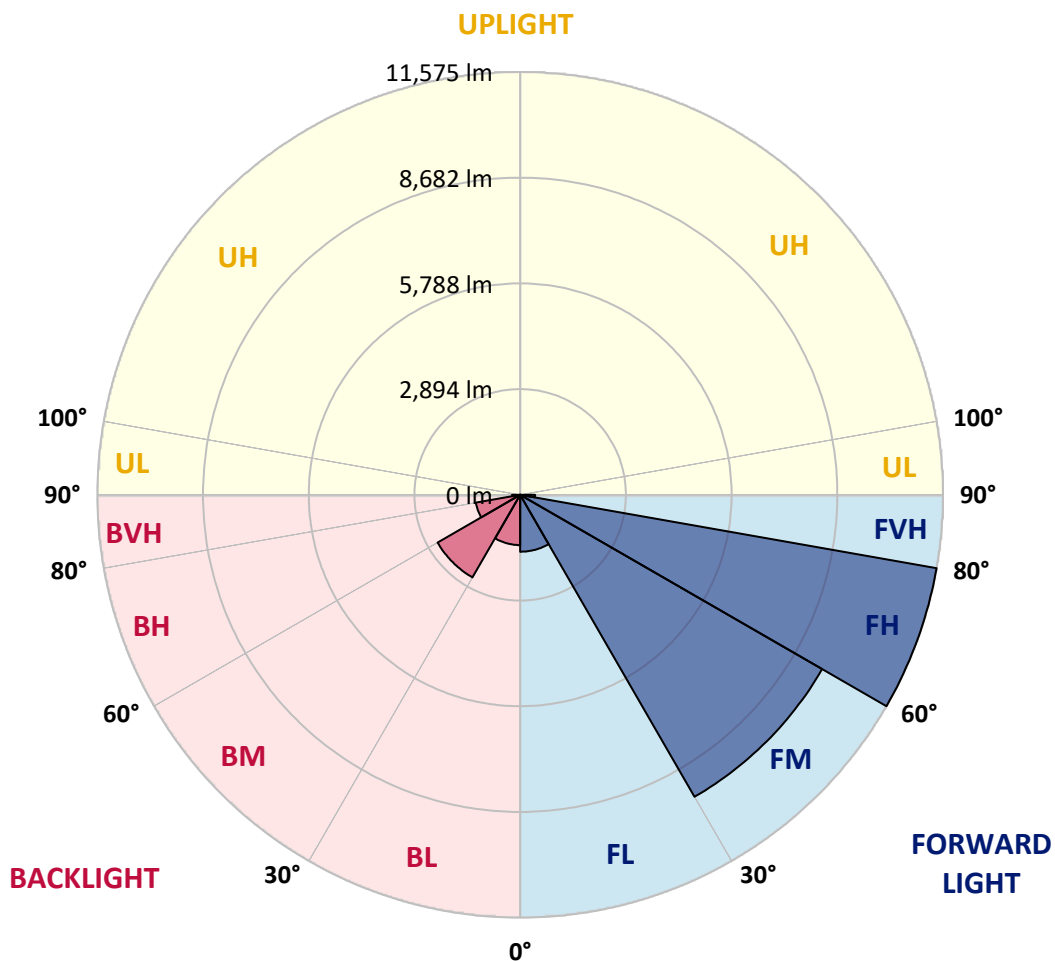
CATALOG NUMBER: GLEON-AF-05-LED-E1-T4FT-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1558.4	5.5			
FM	(30°-60°)	9544.6	33.5			
FH	(60°-80°)	11575.4	40.6			G4/12000
FVH	(80°-90°)	406.0	1.4			G3/500
BL	(0°-30°)	1376.7	4.8	B3/2500		
BM	(30°-60°)	2610.8	9.2	B3/5000		
BH	(60°-80°)	1230.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	222.1	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P269356

CATALOG NUMBER: GLEON-AF-05-LED-E1-T4FT-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4305.2	4305.2	4305.2	4305.2	4305.2	4305.2	4305.2	4305.2	4305.2	4305.2	4305.2
2.5°	4135.3	4143.6	4134.1	4146.3	4166.9	4188.8	4203.9	4225.8	4250.5	4284.7	4292.9
5°	3941.0	3953.3	3953.3	3975.2	4014.9	4050.5	4083.3	4119.0	4171.0	4229.8	4253.3
7.5°	3727.2	3734.1	3746.4	3779.3	3836.8	3887.4	3934.0	3991.6	4062.9	4140.8	4182.0
10°	3469.8	3479.2	3498.4	3545.0	3623.1	3693.0	3760.0	3839.5	3929.9	4027.2	4079.3
12.5°	3287.4	3284.8	3292.9	3327.2	3395.8	3480.7	3577.9	3679.3	3790.2	3903.9	3966.9
15°	3225.9	3210.8	3179.3	3171.0	3208.0	3292.9	3405.4	3530.0	3662.8	3799.8	3878.0
17.5°	3264.3	3238.2	3152.0	3088.9	3083.4	3147.8	3267.0	3406.7	3560.2	3727.2	3824.4
20°	3505.4	3443.7	3231.4	3084.8	3034.1	3065.6	3169.7	3317.7	3498.4	3720.4	3845.0
22.5°	4082.0	3991.6	3540.8	3268.4	3097.1	3058.8	3136.8	3294.4	3505.4	3805.3	3964.2
25°	4921.6	4792.9	4072.5	3725.9	3372.4	3168.3	3186.2	3347.9	3602.6	4002.6	4194.4
27.5°	5584.7	5501.1	4766.9	4371.1	3873.9	3464.3	3346.5	3482.0	3801.2	4325.8	4521.7
30°	5979.2	5928.5	5509.3	5102.6	4513.4	3935.5	3653.2	3734.1	4112.1	4773.8	4935.4
32.5°	6436.6	6406.5	6201.1	5827.1	5203.9	4554.5	4139.5	4110.7	4528.5	5312.0	5386.1
35°	6910.7	6901.0	6780.4	6512.1	5945.0	5371.0	4784.7	4590.2	4982.0	5871.0	5824.4
37.5°	7351.6	7335.3	7265.4	7109.2	6720.2	6247.6	5442.2	5081.9	5470.9	6405.2	6198.3
40°	8163.9	8035.2	7795.5	7677.8	7503.7	6985.9	5964.0	5540.8	5977.9	6914.8	6521.6
42.5°	9154.4	8944.9	8498.2	8336.6	8311.9	7568.1	6320.2	5986.0	6488.7	7420.2	6839.4
45°	9933.7	9736.5	9351.6	9147.5	9237.9	8095.5	6677.8	6461.4	7014.8	7950.3	7166.8
47.5°	10765.3	10455.7	9946.2	10007.7	10204.9	8594.2	7042.2	6972.3	7591.4	8543.4	7573.6
50°	10795.4	10558.4	10335.1	10703.7	11010.4	9052.9	7498.3	7507.9	8296.8	9290.0	8114.7
52.5°	10169.4	10118.7	10473.5	11052.9	11495.3	9416.0	8017.5	8061.3	9199.5	10147.4	8709.2
55°	9950.3	9892.7	10302.2	10930.9	11561.0	9716.0	8580.4	8659.9	10291.3	11051.6	9288.7
57.5°	10484.5	10357.1	10384.4	10873.4	11400.7	10044.8	9194.2	9354.4	11477.6	11841.8	9661.2
60°	11977.6	11704.9	11187.1	11174.8	11487.2	10537.8	9903.6	10099.6	12710.4	12220.0	9515.9
62.5°	14071.9	13799.4	12829.6	12198.1	12151.6	11351.5	10774.8	10826.9	13422.7	11707.7	8629.7
65°	16338.9	16095.1	15011.7	14119.9	13689.8	12699.3	11787.1	11151.5	13189.9	10298.2	7079.2
67.5°	19090.9	18829.3	17897.8	17074.5	16660.9	14874.7	12498.1	10840.6	11711.8	7977.7	5088.8
70°	21015.5	20748.3	20381.3	21048.4	22060.5	18012.9	12589.8	9576.2	8747.5	5302.4	3063.0
72.5°	18504.6	18380.0	19049.7	21859.3	26075.6	19917.0	11380.3	6972.3	5080.5	2814.8	1772.5
73°	16954.0	16926.7	18069.0	21290.8	26104.2	19623.7	10850.2	6480.6	4357.3	2490.3	1620.5
75°	7655.9	7876.3	10380.4	16262.2	22679.8	16170.5	7636.6	3717.6	2461.5	1720.4	1223.2
77.5°	1839.6	1916.4	3247.8	7722.9	14322.7	9636.6	3460.1	1838.3	1573.9	1215.0	893.2
80°	783.5	809.6	1250.6	2853.2	6743.5	3880.7	1594.4	1231.4	1088.9	847.9	625.9
82.5°	435.6	462.9	709.5	1294.5	2721.8	1323.3	972.5	857.5	716.4	511.0	406.8
85°	246.6	261.6	415.0	723.2	1153.3	531.4	582.1	569.9	404.1	263.1	200.1
87.5°	116.4	126.0	200.1	335.5	452.0	208.1	295.9	326.1	253.4	160.3	104.2
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: P269356

CATALOG NUMBER: GLEON-AF-05-LED-E1-T4FT-7027-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4305.2	4305.2	4305.2	4305.2	4305.2	4305.2	4305.2	4305.2	4305.2	4305.2
2.5°	4302.5	4327.1	4355.9	4371.1	4384.7	4401.2	4417.7	4417.7	4420.3	4421.6
5°	4272.3	4323.2	4368.3	4387.4	4391.5	4391.5	4387.4	4365.6	4346.4	4354.7
7.5°	4209.4	4283.4	4321.7	4314.9	4262.7	4202.5	4151.8	4090.3	4058.7	4053.2
10°	4119.0	4203.9	4210.7	4142.3	4013.4	3884.7	3777.9	3673.8	3624.5	3612.2
12.5°	4018.9	4097.1	4053.2	3912.2	3705.2	3517.7	3381.9	3276.6	3229.9	3217.6
15°	3938.2	3991.6	3880.7	3658.7	3398.5	3199.9	3087.6	3009.4	2976.5	2967.0
17.5°	3895.7	3906.6	3703.9	3403.9	3127.3	2961.5	2891.6	2854.6	2842.3	2835.5
20°	3916.3	3839.5	3535.5	3167.0	2905.4	2788.9	2772.4	2762.8	2760.1	2756.0
22.5°	4018.9	3819.1	3380.6	2942.3	2710.8	2660.2	2673.8	2672.5	2669.8	2667.0
25°	4202.5	3836.8	3229.9	2728.6	2547.9	2536.9	2561.5	2561.5	2550.6	2550.6
27.5°	4445.1	3873.9	3061.6	2525.9	2399.9	2401.3	2420.5	2415.0	2402.6	2394.4
30°	4740.9	3897.0	2864.2	2343.7	2261.6	2256.1	2261.6	2238.2	2201.2	2198.5
32.5°	5043.7	3868.3	2635.4	2182.2	2115.0	2102.7	2098.5	2065.7	2023.3	2010.9
35°	5317.5	3762.8	2402.6	2053.3	1975.3	1947.9	1967.0	1956.1	1917.7	1908.1
37.5°	5517.6	3567.0	2193.0	1939.6	1875.2	1868.5	1880.7	1884.9	1839.6	1830.0
40°	5651.7	3301.2	2013.6	1843.7	1856.1	1830.0	1789.0	1760.1	1746.5	1742.4
42.5°	5760.0	3024.6	1862.9	1798.5	1860.2	1784.8	1695.8	1649.3	1673.9	1684.9
45°	5884.6	2754.7	1737.0	1742.4	1839.6	1732.8	1631.4	1586.2	1595.7	1598.5
47.5°	6055.8	2426.0	1601.3	1652.0	1771.2	1697.2	1591.6	1527.3	1482.2	1461.6
50°	6292.8	2036.8	1460.3	1550.7	1704.1	1671.1	1530.1	1461.6	1378.0	1358.9
52.5°	6457.2	1673.9	1343.8	1465.7	1643.8	1619.1	1480.8	1391.7	1304.1	1287.6
55°	6368.2	1390.3	1242.4	1371.2	1564.3	1554.7	1439.7	1320.5	1252.0	1238.4
57.5°	5923.1	1210.8	1164.4	1282.2	1467.0	1499.9	1384.8	1260.2	1210.8	1201.4
60°	5073.7	1098.5	1115.1	1221.9	1387.6	1445.2	1330.1	1227.4	1194.4	1187.6
62.5°	3936.8	1023.2	1078.1	1178.0	1326.0	1406.7	1299.9	1223.2	1210.8	1202.7
65°	2820.4	963.0	1038.4	1134.2	1269.8	1371.2	1289.0	1217.7	1220.4	1213.6
67.5°	1916.4	909.5	990.4	1085.0	1215.0	1339.6	1273.8	1198.6	1232.8	1224.6
70°	1341.0	857.5	934.1	1021.9	1146.5	1295.8	1246.5	1169.9	1167.1	1134.2
72.5°	1046.5	789.0	857.5	934.1	1058.8	1234.2	1191.7	1105.5	1060.2	1026.0
73°	998.6	772.5	838.3	915.1	1039.7	1219.1	1176.7	1087.6	1037.0	1005.5
75°	826.0	701.3	761.7	830.2	957.6	1147.9	1102.7	1006.8	942.4	923.3
77.5°	649.3	600.0	657.5	719.2	843.8	1043.8	993.0	901.3	865.6	849.3
80°	480.9	497.2	548.0	602.8	731.5	932.8	887.6	795.9	954.8	915.1
82.5°	338.3	376.7	423.3	472.6	613.6	824.6	769.8	675.3	698.6	580.8
85°	200.1	246.6	290.4	332.8	442.4	683.5	635.6	538.4	441.1	420.5
87.5°	116.4	137.0	149.3	193.1	304.0	515.1	448.0	398.6	228.8	154.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)