

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: P193986

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31458 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

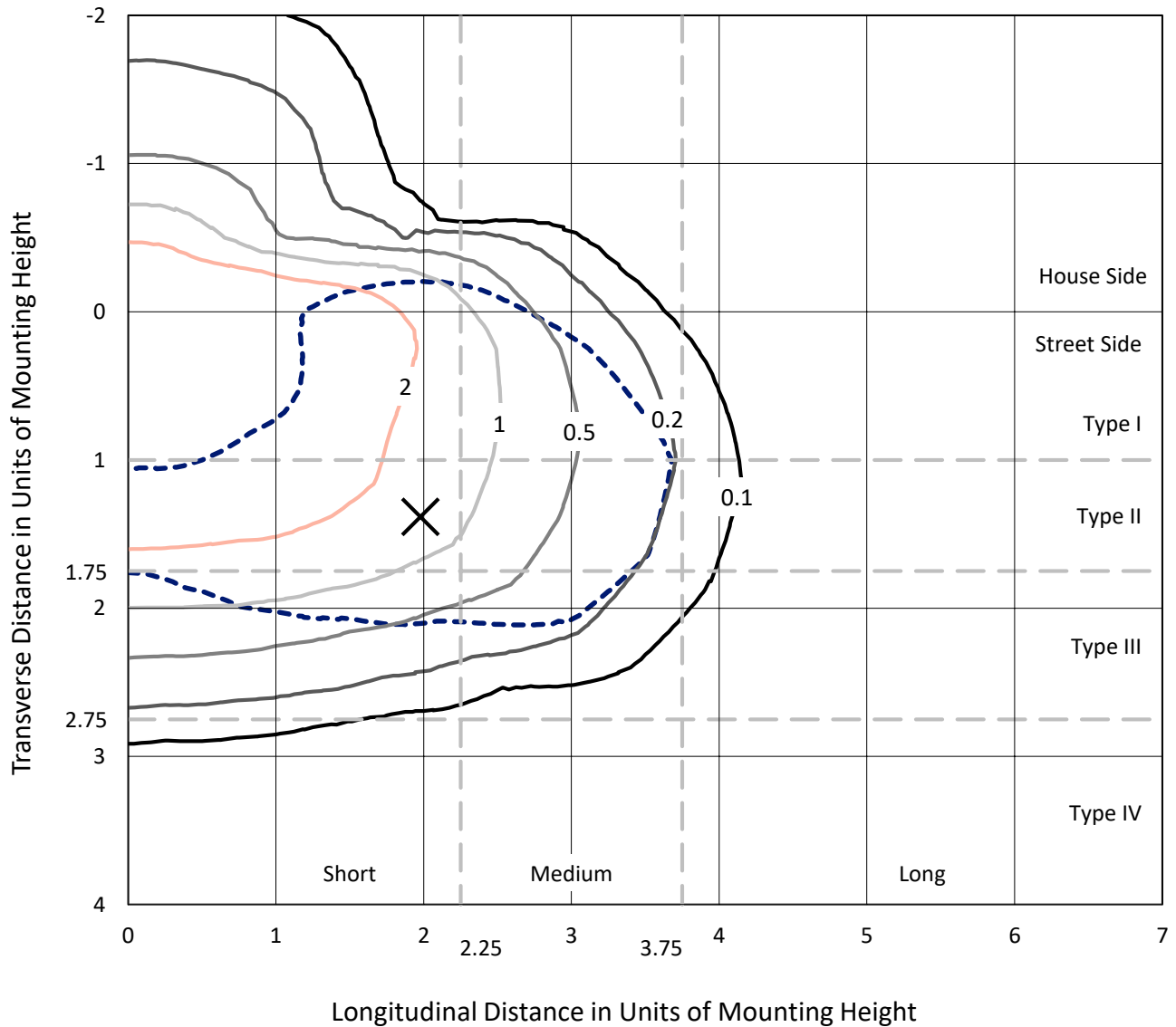
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193986
 CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-8030-800

Iso-Footcandle Lines of Horizontal Illumination

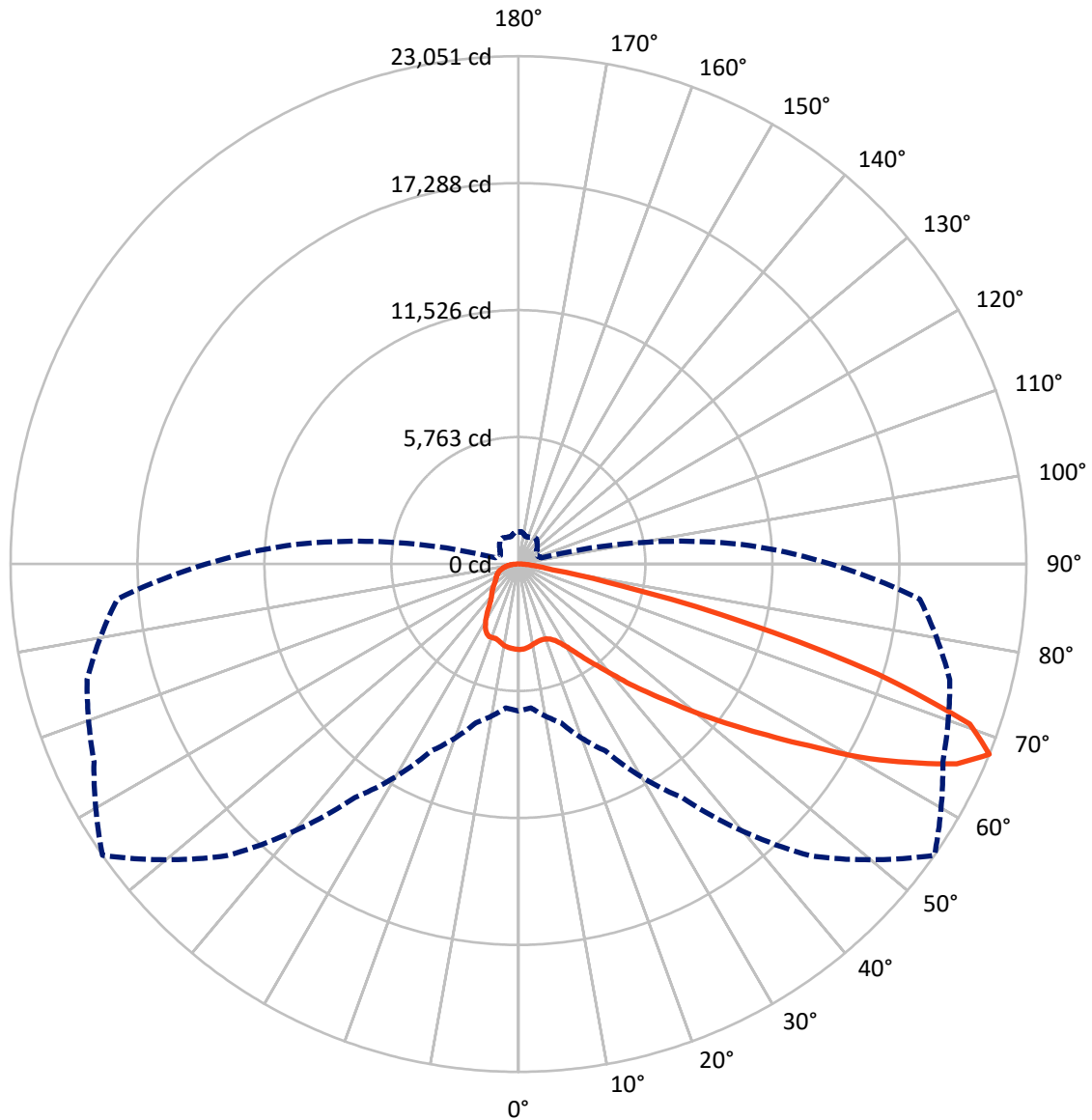
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193986
CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-8030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P193986

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6795.6	0.0	6795.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	24662.4	0.0	24662.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	31458.0	0.0	31458.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.1	1.2
10°-20°	1025.4	3.3
20°-30°	1717.8	5.5
30°-40°	2824.7	9.0
40°-50°	4754.9	15.1
50°-60°	7483.8	23.8
60°-70°	8931.2	28.4
70°-80°	3835.2	12.2
80°-90°	522.9	1.7
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°	31458.0	100.0
0°-180°	31458.0	100.0



REPORT NUMBER: P193986

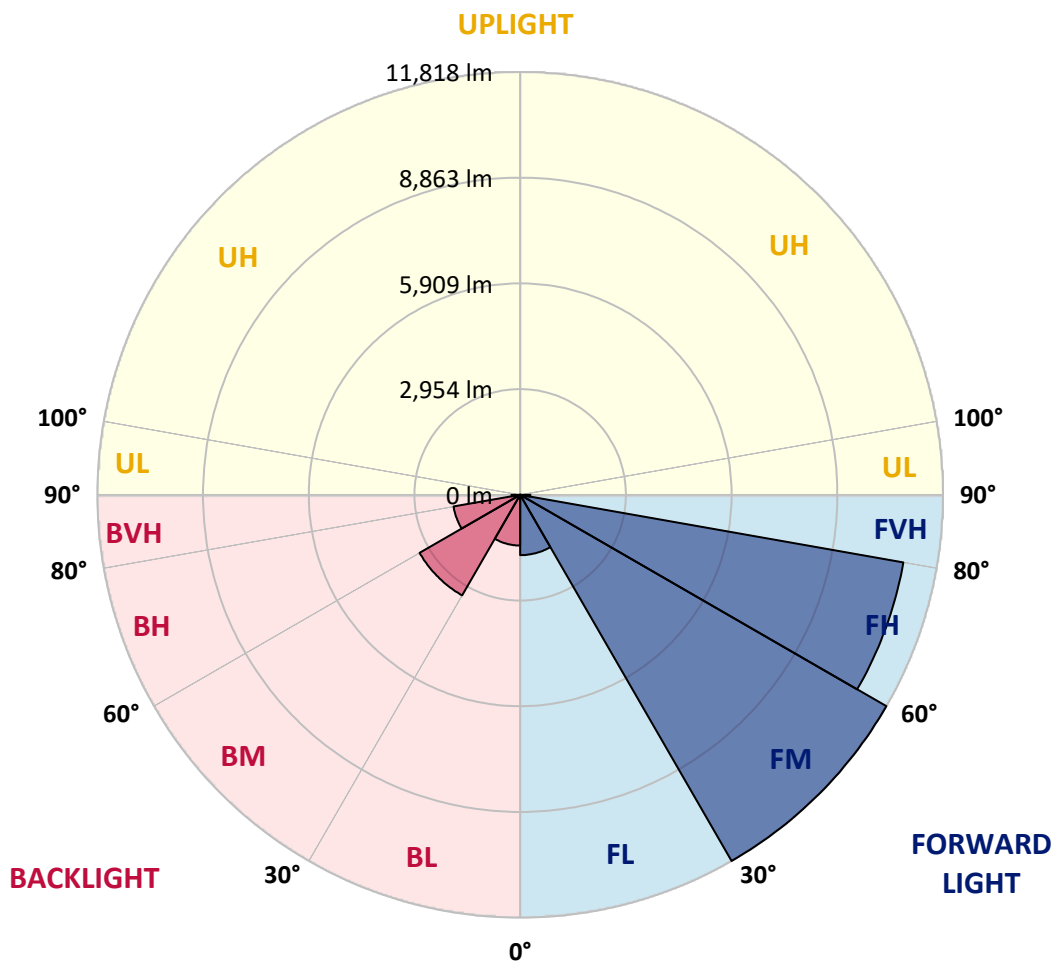
CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1686.2	5.4			
FM	(30°-60°)	11817.9	37.6			
FH	(60°-80°)	10875.2	34.6			G4/12000
FVH	(80°-90°)	283.0	0.9			G3/500
BL	(0°-30°)	1419.1	4.5	B3/2500		
BM	(30°-60°)	3245.5	10.3	B3/5000		
BH	(60°-80°)	1891.2	6.0	B3/2500		G3/2500
BVH	(80°-90°)	239.8	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-G4

Type III Short





REPORT NUMBER: P193986

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	3845.7	3847.2	3850.2	3862.4	3873.0	3870.0	3871.5	3865.4	3863.9	3854.8	3863.9
5°	3797.1	3801.6	3803.1	3822.9	3835.1	3838.1	3833.5	3825.9	3816.8	3807.7	3812.3
7.5°	3686.1	3698.3	3699.8	3727.2	3746.9	3772.8	3774.3	3775.8	3771.2	3765.2	3774.3
10°	3616.3	3619.3	3617.8	3637.5	3652.7	3681.6	3698.3	3727.2	3739.3	3742.4	3748.4
12.5°	3611.7	3608.7	3604.1	3604.1	3599.5	3611.7	3642.1	3683.1	3712.0	3721.1	3728.7
15°	3660.3	3658.8	3643.6	3620.8	3591.9	3582.8	3608.7	3654.2	3692.2	3712.0	3719.6
17.5°	3769.7	3760.6	3736.3	3684.6	3622.3	3598.0	3601.1	3639.0	3683.1	3708.9	3716.5
20°	3970.3	3970.3	3918.6	3821.4	3710.5	3652.7	3625.4	3648.2	3690.7	3725.7	3736.3
22.5°	4316.7	4319.8	4233.1	4073.6	3886.7	3763.6	3695.3	3690.7	3740.8	3780.4	3792.5
25°	4807.5	4795.3	4673.8	4445.9	4161.7	3958.1	3839.6	3812.3	3854.8	3898.9	3914.1
27.5°	5378.8	5334.7	5190.4	4915.4	4547.7	4249.9	4067.5	4023.5	4064.5	4114.6	4129.8
30°	5944.0	5898.4	5726.7	5425.9	5017.2	4640.4	4379.0	4307.6	4365.3	4436.7	4445.9
32.5°	6509.3	6509.3	6317.8	5966.8	5521.6	5106.8	4793.8	4708.7	4804.5	4891.1	4910.8
35°	7185.4	7188.4	7003.1	6580.7	6102.0	5662.9	5318.0	5255.7	5400.1	5460.8	5507.9
37.5°	8016.5	8033.2	7794.7	7284.2	6760.0	6298.1	5887.8	5802.7	5947.1	6112.7	6264.6
40°	8914.5	8935.8	8672.9	8043.9	7519.7	7036.5	6592.8	6439.4	6679.4	6995.5	7191.5
42.5°	9771.5	9880.9	9627.1	8979.9	8416.1	7916.3	7466.5	7243.1	7544.0	8021.1	8191.3
45°	11009.8	11088.8	10646.7	10060.2	9529.9	8970.7	8375.1	8139.6	8560.5	9162.2	9197.1
47.5°	11834.9	11775.6	11550.7	11186.1	10850.3	10327.6	9431.1	9172.8	9732.0	10440.0	10244.0
50°	12274.0	12292.2	12261.8	12283.1	12295.3	11967.1	10725.7	10371.7	11038.7	11894.1	11442.9
52.5°	12684.2	12562.7	12663.0	13161.3	13763.0	13641.5	12134.2	11765.0	12439.6	13507.8	12710.1
55°	12675.1	12489.7	12816.4	13696.2	15001.4	15141.2	13715.9	13290.5	13921.1	15238.4	14053.2
57.5°	12226.9	12236.0	12738.9	13890.7	15864.4	16551.2	15551.4	14913.2	15492.1	16991.8	15279.4
60°	11610.0	11693.6	12418.3	13858.8	16555.8	17707.5	17803.2	16662.1	17031.3	18585.7	16294.4
62.5°	10614.8	10702.9	11702.7	13527.5	16450.9	18821.2	19839.2	18646.5	18640.4	19552.1	16592.2
65°	9045.2	9019.4	10069.3	12289.2	15571.2	19644.8	21861.6	20361.9	19852.9	19567.3	15993.6
67.5°	6670.3	6554.8	7455.9	9359.7	12942.5	18722.5	23051.3	21255.4	20266.2	18280.3	14164.2
70°	3461.3	3345.8	4075.1	5465.4	8511.9	14612.4	21734.0	20793.5	19353.0	15323.5	11096.4
72.5°	1479.9	1460.2	1756.5	2397.7	4117.7	8428.3	17042.0	17997.7	16605.9	11417.0	7629.1
75°	995.2	989.2	1100.1	1306.7	1852.2	3420.2	10664.9	12775.4	12149.4	7079.0	4290.9
77.5°	781.0	773.4	838.7	939.0	1200.4	1349.3	4733.0	6858.7	6348.2	3081.4	1878.0
80°	610.8	604.7	645.8	700.5	863.0	850.9	1557.4	2728.9	2112.0	1180.6	913.2
82.5°	481.7	481.7	515.1	516.6	612.3	580.4	812.9	1201.9	1054.5	688.3	559.2
85°	440.6	440.6	475.6	385.9	399.6	366.2	504.5	712.6	668.6	282.6	243.1
87.5°	221.8	215.8	399.6	341.9	217.3	194.5	246.1	344.9	370.7	156.5	121.6
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: P193986

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-8030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	3860.9	3859.4	3862.4	3863.9	3876.1	3892.8	3900.4	3911.0	3917.1	3914.1
5°	3815.3	3818.3	3830.5	3839.6	3860.9	3888.2	3903.4	3915.6	3926.2	3921.7
7.5°	3777.3	3784.9	3803.1	3810.7	3822.9	3830.5	3829.0	3833.5	3842.6	3832.0
10°	3756.0	3765.2	3778.8	3768.2	3739.3	3698.3	3660.3	3640.6	3646.6	3639.0
12.5°	3734.8	3746.9	3736.3	3686.1	3605.6	3552.4	3523.6	3526.6	3540.3	3543.3
15°	3722.6	3727.2	3681.6	3587.4	3505.3	3497.7	3512.9	3509.9	3511.4	3511.4
17.5°	3722.6	3710.5	3625.4	3531.2	3496.2	3482.5	3435.4	3376.2	3350.4	3341.2
20°	3742.4	3710.5	3607.1	3544.8	3468.9	3351.9	3227.3	3117.9	3069.3	3055.6
22.5°	3801.6	3746.9	3658.8	3550.9	3335.2	3139.2	2941.6	2811.0	2722.8	2707.6
25°	3921.7	3860.9	3760.6	3470.4	3122.4	2842.9	2618.0	2472.1	2384.0	2371.8
27.5°	4131.3	4091.8	3815.3	3292.6	2839.8	2540.5	2332.3	2219.9	2154.6	2150.0
30°	4447.4	4427.6	3787.9	3029.8	2491.9	2247.2	2147.0	2081.6	2033.0	2031.5
32.5°	4951.8	4792.3	3698.3	2709.2	2174.3	2039.1	1998.1	1958.6	1920.6	1920.6
35°	5600.6	5087.1	3528.1	2365.8	1981.3	1923.6	1871.9	1809.6	1759.5	1756.5
37.5°	6363.4	5269.4	3222.7	2089.2	1890.2	1846.1	1770.1	1677.5	1589.3	1574.1
40°	7133.7	5324.1	2792.7	1919.0	1832.4	1768.6	1675.9	1566.5	1481.4	1476.9
42.5°	7840.3	5219.3	2336.9	1802.0	1774.7	1689.6	1592.4	1495.1	1428.3	1426.7
45°	8432.9	4947.3	1954.0	1691.1	1713.9	1618.2	1531.6	1452.6	1400.9	1390.3
47.5°	8990.5	4562.9	1685.1	1574.1	1653.1	1578.7	1505.8	1431.3	1381.2	1373.6
50°	9637.8	4148.1	1496.6	1460.2	1600.0	1565.0	1527.0	1449.5	1366.0	1356.9
52.5°	10421.8	3789.5	1349.3	1359.9	1558.9	1583.3	1581.7	1501.2	1355.3	1343.2
55°	11297.0	3391.4	1238.3	1277.8	1542.2	1616.7	1595.4	1549.8	1364.5	1346.2
57.5°	12158.5	2926.4	1160.8	1215.5	1517.9	1613.6	1530.1	1464.7	1385.7	1359.9
60°	12804.3	2301.9	1101.6	1160.8	1464.7	1563.5	1458.7	1372.0	1381.2	1361.4
62.5°	12846.8	1779.3	1030.2	1113.7	1384.2	1513.4	1411.6	1331.0	1400.9	1382.7
65°	12091.7	1344.7	961.8	1057.5	1297.6	1481.4	1366.0	1308.2	1441.9	1422.2
67.5°	10180.2	1081.8	904.1	999.8	1211.0	1414.6	1324.9	1287.0	1478.4	1443.5
70°	7349.5	922.3	847.8	929.9	1133.5	1338.6	1288.5	1249.0	1379.6	1324.9
72.5°	4524.9	799.2	784.0	837.2	1074.2	1259.6	1233.8	1177.6	1242.9	1198.8
75°	2259.4	692.9	712.6	746.0	990.7	1170.0	1142.6	1086.4	1095.5	1086.4
77.5°	1081.8	592.6	629.0	654.9	882.8	1068.2	1039.3	981.6	970.9	972.4
80°	685.3	495.3	530.3	548.5	788.6	949.6	920.8	863.0	984.6	913.2
82.5°	428.5	402.7	411.8	445.2	686.8	826.6	788.6	736.9	887.3	702.0
85°	237.0	281.1	293.3	322.1	528.8	691.3	653.4	588.0	527.2	518.1
87.5°	141.3	167.1	171.7	193.0	355.5	499.9	442.2	419.4	348.0	346.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)