

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: P191474

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24532.4 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 193
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

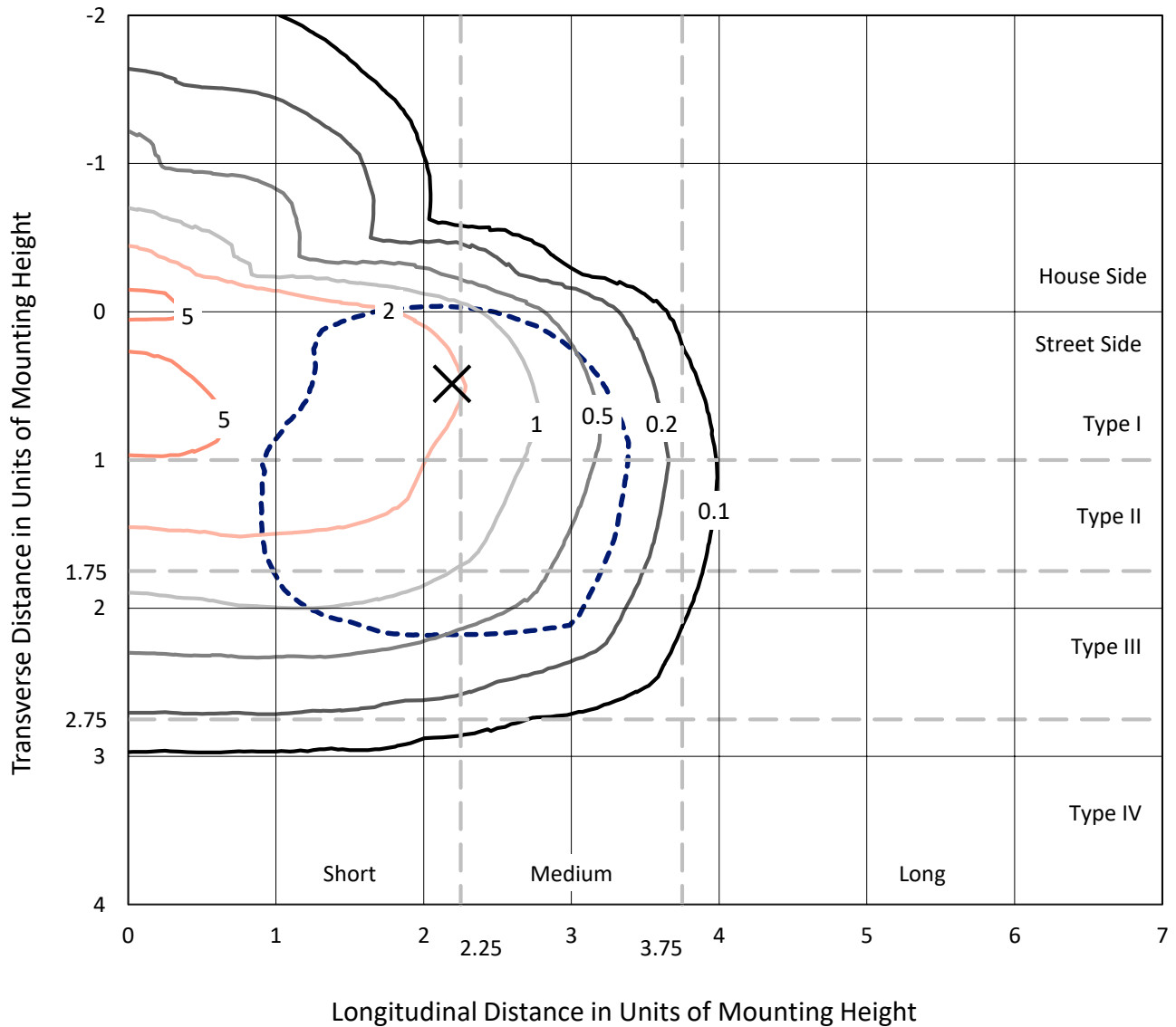


REPORT NUMBER: P191474

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

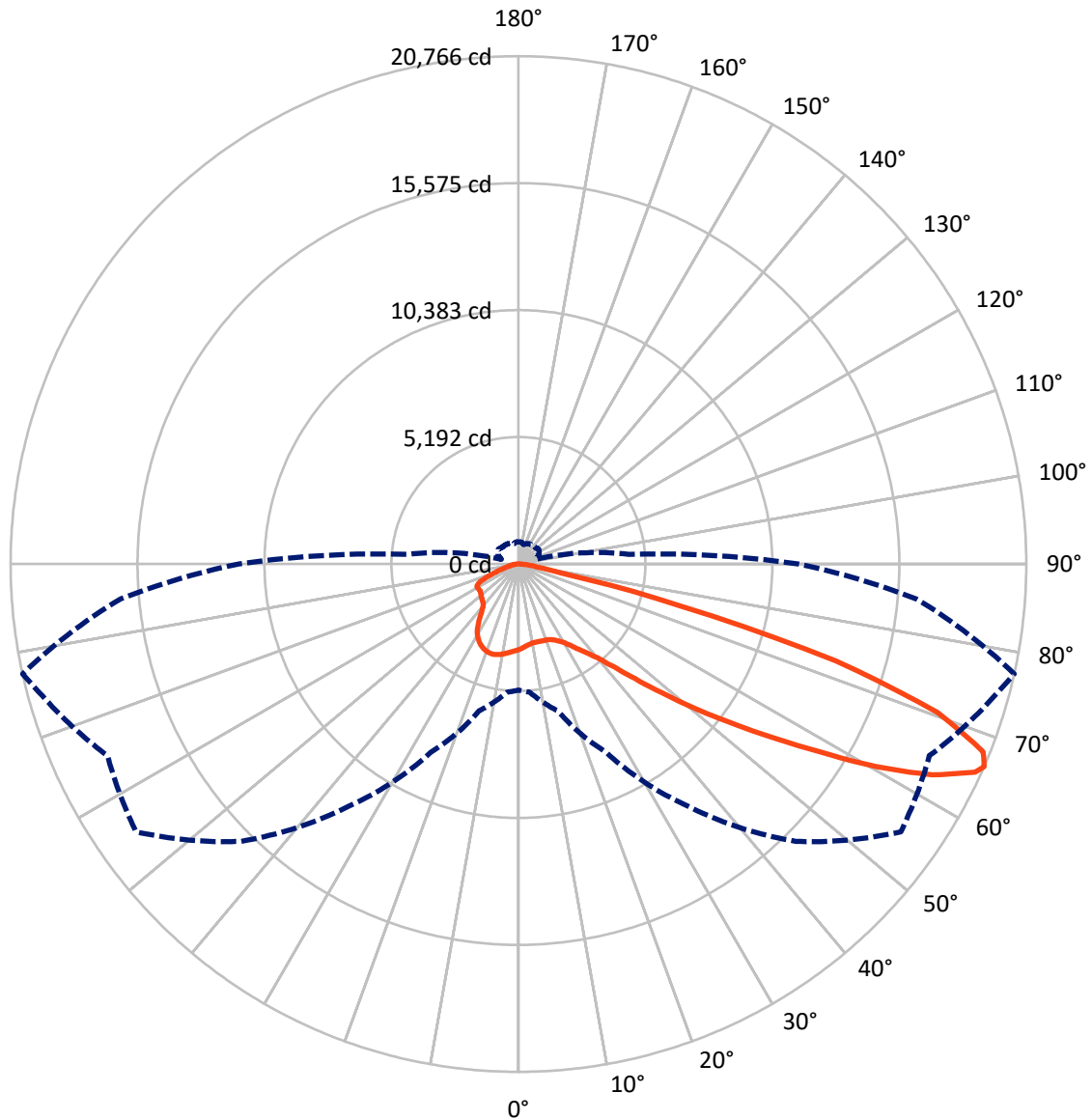


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P191474

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-600

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4191.2	0.0	4191.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	20341.2	0.0	20341.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	24532.4	0.0	24532.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.3	1.3
10°-20°	881.2	3.6
20°-30°	1503.8	6.1
30°-40°	2407.4	9.8
40°-50°	3719.1	15.2
50°-60°	5275.0	21.5
60°-70°	7056.6	28.8
70°-80°	3064.5	12.5
80°-90°	312.5	1.3
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°	24532.4	100.0
0°-180°	24532.4	100.0



REPORT NUMBER: P191474

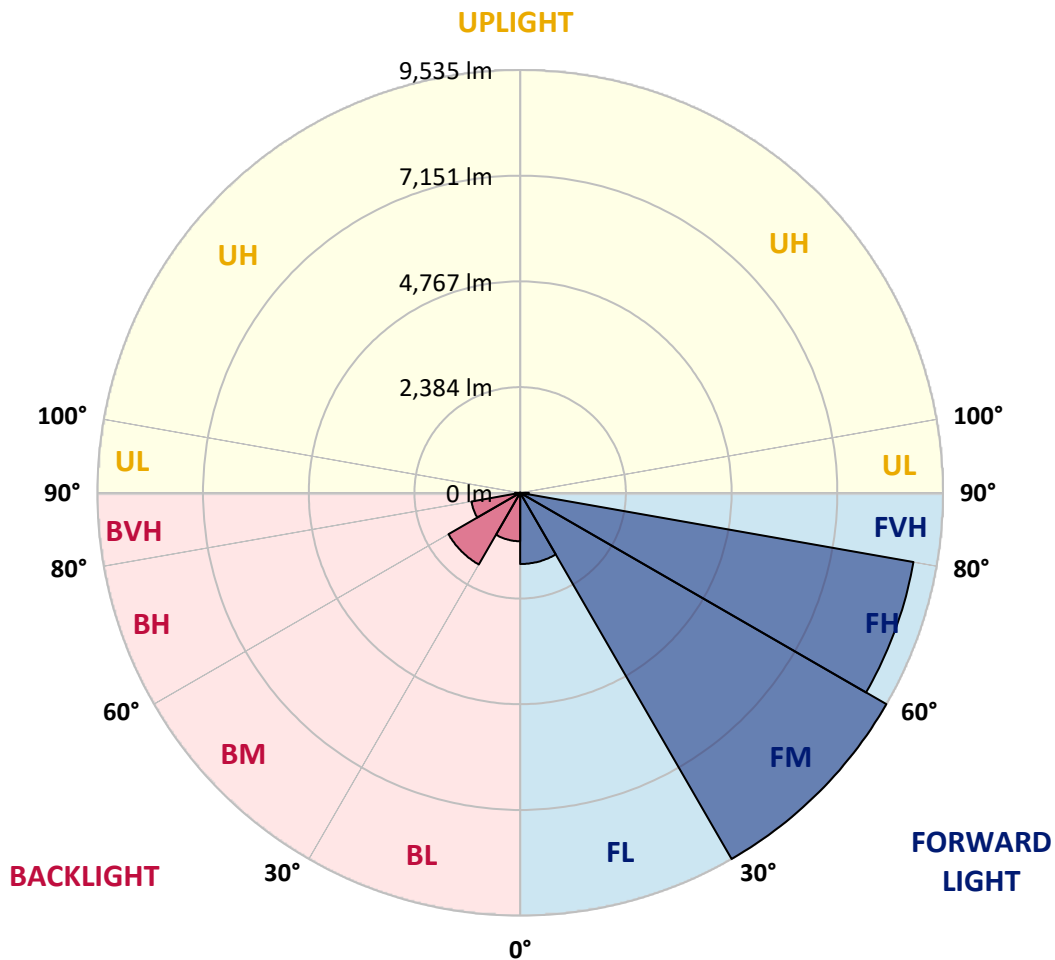
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1605.8	6.5			
FM	(30°-60°)	9534.6	38.9			
FH	(60°-80°)	9004.9	36.7			G4/12000
FVH	(80°-90°)	196.0	0.8			G2/225
BL	(0°-30°)	1091.6	4.4	B3/2500		
BM	(30°-60°)	1867.0	7.6	B2/2500		
BH	(60°-80°)	1116.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	116.5	0.5			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 III Short





REPORT NUMBER: P191474

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9
2.5°	3092.6	3113.5	3130.8	3147.1	3179.5	3232.8	3294.3	3344.1	3416.0	3430.0	3468.2
5°	2808.6	2808.6	2822.5	2846.9	2891.0	2970.9	3054.3	3165.6	3322.1	3359.2	3461.3
7.5°	2670.7	2671.8	2679.9	2700.8	2739.1	2812.1	2903.6	3034.7	3246.7	3308.2	3482.1
10°	2721.7	2710.1	2692.7	2682.3	2688.1	2731.0	2817.9	2963.9	3200.4	3279.3	3528.5
12.5°	3006.9	2984.8	2924.5	2844.5	2768.0	2736.7	2787.7	2930.3	3180.7	3272.3	3589.8
15°	3472.8	3463.5	3351.1	3185.4	2999.9	2844.5	2809.7	2917.6	3183.0	3280.4	3662.9
17.5°	4057.0	4044.2	3895.9	3654.8	3352.2	3049.7	2887.5	2928.0	3191.1	3294.3	3733.6
20°	4647.1	4607.6	4447.7	4160.1	3771.8	3329.1	3016.1	2954.7	3201.5	3309.3	3807.8
22.5°	5087.4	5055.0	4911.3	4631.9	4184.5	3652.4	3188.8	3001.0	3235.2	3353.4	3899.4
25°	5474.6	5477.0	5334.4	5064.3	4601.8	3995.5	3411.3	3125.0	3320.9	3443.9	4024.6
27.5°	5953.4	5925.5	5792.3	5524.4	5014.5	4342.1	3680.3	3295.4	3448.5	3572.5	4189.2
30°	6526.0	6506.3	6352.1	6048.4	5472.4	4714.3	3987.5	3493.7	3613.1	3741.7	4404.7
32.5°	7199.4	7190.2	7030.2	6639.6	6000.9	5152.4	4348.0	3755.7	3858.8	3992.1	4714.3
35°	7990.0	7991.2	7802.3	7332.7	6579.3	5662.4	4757.1	4092.9	4157.9	4296.9	5082.8
37.5°	8476.8	8535.9	8465.2	7986.5	7234.2	6232.7	5288.0	4540.4	4498.6	4638.9	5478.1
40°	8581.1	8653.0	8876.8	8633.3	7966.8	6861.0	5758.6	4970.4	4918.2	5089.8	5987.0
42.5°	8435.2	8534.8	9007.7	9179.2	8744.6	7635.3	6391.5	5609.1	5543.1	5773.7	6619.9
45°	8348.2	8422.4	8969.4	9463.3	9419.2	8510.4	7197.2	6411.2	6386.9	6689.4	7350.1
47.5°	8197.5	8264.7	8790.9	9529.3	9815.6	9312.5	8165.0	7391.8	7439.4	7835.8	8174.3
50°	8278.6	8306.5	8591.6	9361.2	9930.4	9900.2	9246.6	8527.8	8690.1	9185.1	9107.4
52.5°	8267.1	8338.9	8568.4	9085.3	9945.4	10263.1	10311.8	9794.8	10136.7	10704.7	10142.6
55°	6683.7	6815.8	8296.0	9015.9	9998.8	10618.9	11259.9	11130.1	11767.6	12429.6	11311.0
57.5°	6382.3	6465.8	7286.4	9161.9	10281.6	11298.2	12314.8	12599.9	13666.3	14434.9	12734.4
60°	6323.2	6426.3	7275.9	9340.4	10855.5	12405.2	13878.5	14379.2	15976.5	16818.0	14385.0
62.5°	6138.8	6250.1	7207.6	9317.2	11670.2	13936.4	15880.3	16271.0	18167.3	18985.7	15765.5
65°	5554.6	5659.0	6650.0	8942.8	12219.8	15570.8	18249.5	18005.1	19896.7	20512.2	16454.1
66°	5154.8	5256.7	6210.7	8502.4	12092.2	16034.4	19088.8	18541.7	20283.9	20766.1	16319.6
67.5°	4423.3	4503.2	5357.6	7515.9	11414.1	16164.3	19794.7	18945.0	20324.5	20494.8	15551.1
70°	2794.7	2817.9	3482.1	5188.3	8640.3	14018.7	18720.2	17943.6	18648.3	18187.0	13036.9
72.5°	1212.5	1204.3	1671.5	2639.4	4891.5	9406.4	15143.0	14805.8	14628.4	13575.9	9125.9
75°	674.6	683.9	868.2	1225.2	1987.9	4620.4	9906.1	9479.5	8003.9	6829.7	4138.1
77.5°	541.3	554.0	719.9	869.4	892.5	1611.2	4635.4	3771.8	2270.7	1822.2	1149.9
80°	427.7	450.9	628.3	677.0	601.6	664.2	1497.6	1197.4	898.4	824.2	595.8
82.5°	338.5	354.7	539.0	512.3	420.7	447.4	717.5	699.0	584.2	532.0	344.2
85°	243.5	273.5	442.8	386.0	275.9	301.4	476.4	456.7	335.0	273.5	151.8
87.5°	99.7	129.8	312.9	256.1	154.2	140.2	237.6	223.7	158.8	115.9	75.4
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: P191474

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9
2.5°	3492.5	3520.3	3556.3	3578.3	3589.8	3598.0	3610.7	3609.6	3613.1	3614.2	3618.9
5°	3515.7	3562.0	3614.2	3628.1	3628.1	3615.4	3602.6	3581.8	3573.7	3571.3	3573.7
7.5°	3575.9	3627.0	3672.2	3655.9	3621.1	3570.2	3504.1	3446.1	3414.8	3404.4	3402.1
10°	3652.4	3713.9	3732.4	3671.1	3569.0	3446.1	3315.2	3220.1	3165.6	3150.6	3145.9
12.5°	3745.2	3803.1	3777.7	3647.8	3458.9	3260.7	3079.9	2928.0	2814.4	2778.4	2776.2
15°	3847.2	3892.4	3803.1	3575.9	3294.3	3002.2	2679.9	2417.9	2276.6	2231.4	2227.9
17.5°	3942.2	3965.5	3788.1	3450.8	3052.1	2579.1	2151.4	1949.6	1900.9	1912.6	1914.9
20°	4023.4	4023.4	3737.0	3271.1	2670.7	2021.6	1751.5	1748.0	1782.8	1817.6	1824.5
22.5°	4112.7	4059.4	3647.8	3017.3	2130.5	1654.1	1614.7	1647.2	1686.5	1724.8	1730.6
25°	4222.7	4088.3	3523.8	2632.5	1675.0	1502.2	1517.3	1543.9	1563.7	1588.0	1591.5
27.5°	4345.6	4125.4	3360.4	2102.7	1453.6	1407.2	1418.8	1428.0	1425.8	1435.0	1437.3
30°	4492.8	4168.3	3136.7	1643.7	1362.0	1326.1	1305.2	1297.1	1297.1	1312.1	1318.0
32.5°	4689.9	4232.0	2815.6	1408.4	1318.0	1268.2	1200.8	1170.8	1182.3	1233.4	1244.9
35°	4906.7	4300.4	2380.9	1328.4	1308.7	1241.5	1137.1	1081.5	1082.7	1130.2	1145.2
37.5°	5143.1	4387.3	1904.4	1313.3	1329.5	1242.6	1103.5	1027.0	995.7	995.7	1001.5
40°	5445.7	4476.6	1541.7	1323.7	1373.6	1256.5	1086.2	984.1	896.0	898.4	903.0
42.5°	5839.8	4553.2	1346.9	1345.8	1426.9	1275.1	1084.9	927.3	850.8	903.0	950.5
45°	6278.0	4591.4	1261.2	1365.4	1469.8	1286.7	1066.4	918.0	856.6	1011.9	1102.3
47.5°	6782.2	4569.3	1213.6	1372.4	1480.2	1286.7	1045.6	940.1	897.2	1171.9	1277.4
50°	7335.1	4505.6	1167.3	1358.5	1476.7	1284.3	1065.3	962.1	912.3	1199.7	1272.8
52.5°	7985.4	4452.3	1118.6	1328.4	1452.4	1271.6	1088.4	952.8	864.7	1090.8	1141.7
55°	8727.2	4467.3	1064.1	1285.5	1414.1	1247.3	1080.3	915.7	814.9	961.0	992.3
57.5°	9675.4	4647.1	999.2	1231.0	1362.0	1206.7	1051.4	898.4	799.8	871.7	890.3
60°	10733.7	4960.0	918.0	1176.5	1297.1	1141.7	1029.3	906.4	806.8	864.7	874.0
62.5°	11510.3	5142.0	848.5	1096.6	1209.0	1069.9	1001.5	916.9	825.3	889.0	886.8
65°	11721.3	4843.0	761.6	979.5	1089.6	994.5	966.7	928.4	833.4	908.8	898.4
66°	11425.7	4520.6	723.3	925.0	1029.3	957.5	949.3	927.3	829.9	911.0	893.8
67.5°	10708.1	3860.0	657.2	845.1	933.1	901.8	921.5	916.9	820.7	908.8	884.4
70°	8733.0	2633.6	562.2	703.6	776.6	794.0	868.2	879.8	790.5	868.2	814.9
72.5°	6101.7	1604.3	497.3	545.9	628.3	677.0	795.1	828.8	749.9	758.1	707.1
75°	2948.9	852.0	450.9	423.1	488.0	565.7	707.1	759.2	686.2	634.0	615.5
77.5°	919.2	520.5	382.5	340.7	382.5	456.7	591.2	665.3	610.9	530.9	524.0
80°	493.8	382.5	294.4	273.5	302.5	358.1	464.8	555.3	525.1	476.4	425.4
82.5°	325.7	248.1	217.9	212.2	230.7	273.5	345.5	460.2	460.2	408.1	296.8
85°	168.1	151.8	149.6	149.6	161.1	182.0	235.3	354.7	377.9	215.6	178.5
87.5°	83.5	87.0	81.1	84.6	90.4	89.3	112.4	178.5	213.3	130.9	108.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)