

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: P457081

Luminaire Tested: **GALN-SA8B-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33970 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

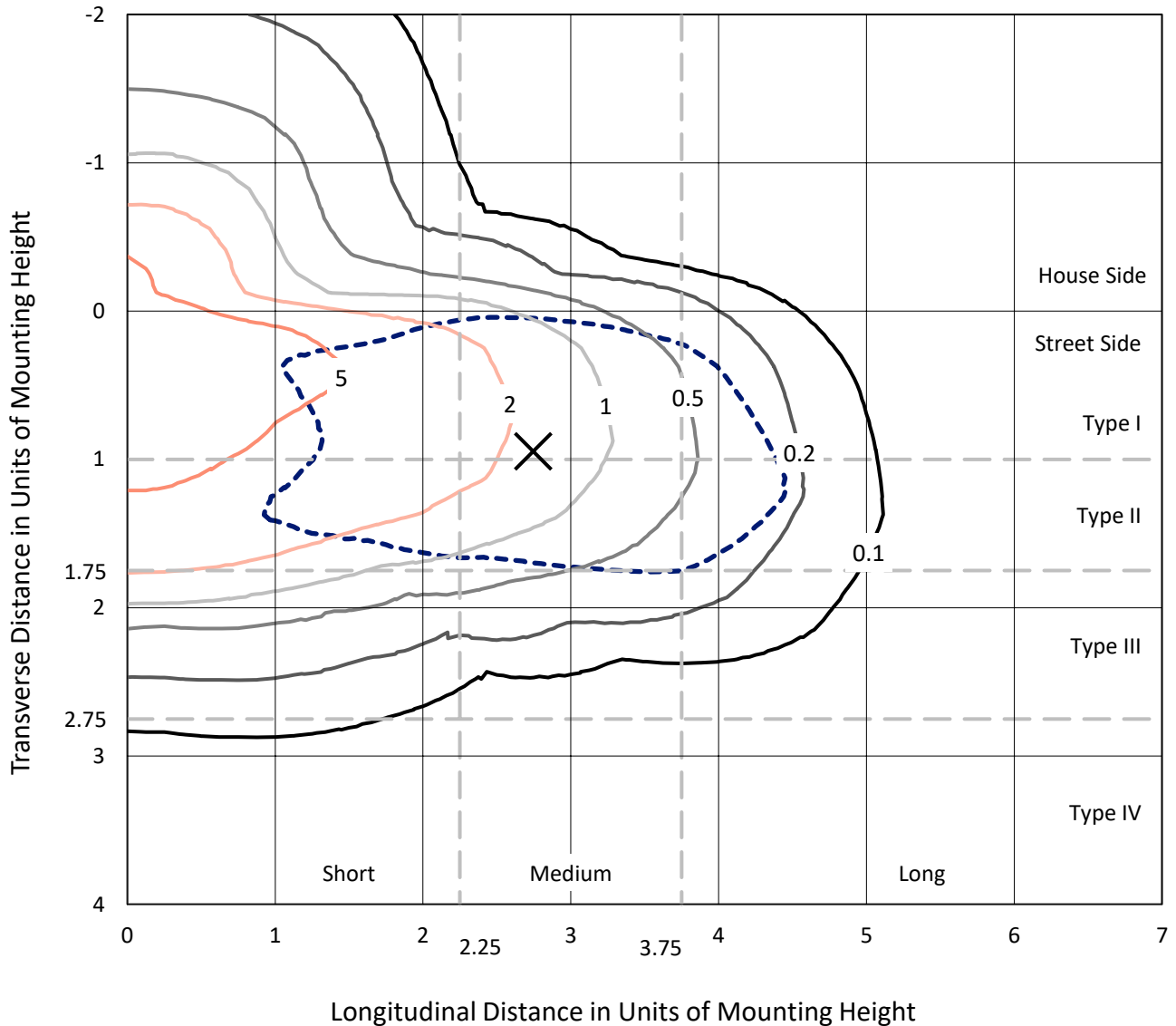
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457081
 CATALOG NUMBER: GALN-SA8B-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

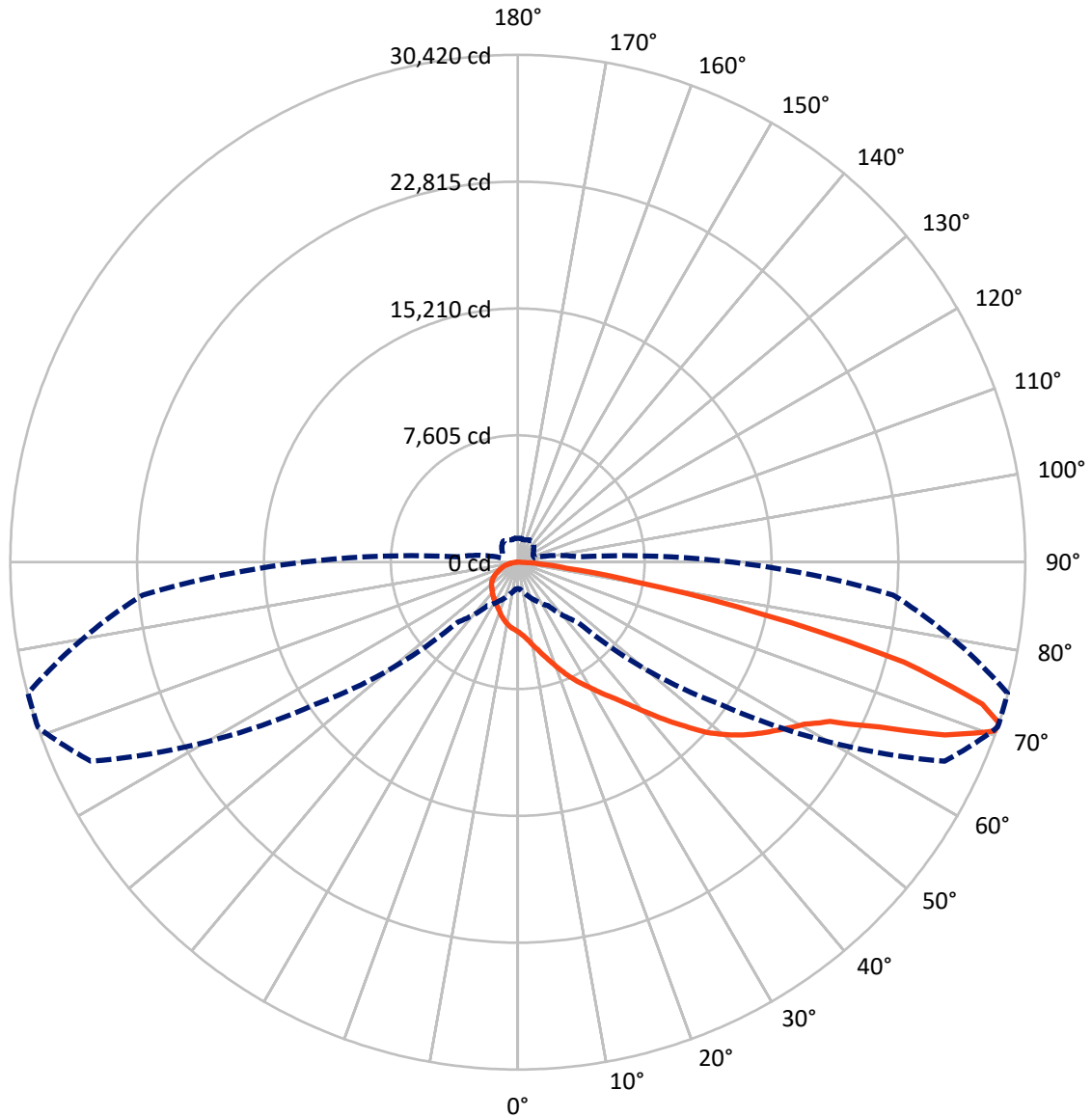
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P457081
CATALOG NUMBER: GALN-SA8B-827-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P457081

CATALOG NUMBER: GALN-SA8B-827-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6109.4	0.0	6109.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	27860.6	0.0	27860.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	33970.0	0.0	33970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.6	1.2
10°-20°	1360.0	4.0
20°-30°	2376.8	7.0
30°-40°	3535.1	10.4
40°-50°	5208.6	15.3
50°-60°	7292.1	21.5
60°-70°	8155.9	24.0
70°-80°	4982.0	14.7
80°-90°	640.9	1.9
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°	33970.0	100.0
0°-180°	33970.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457081

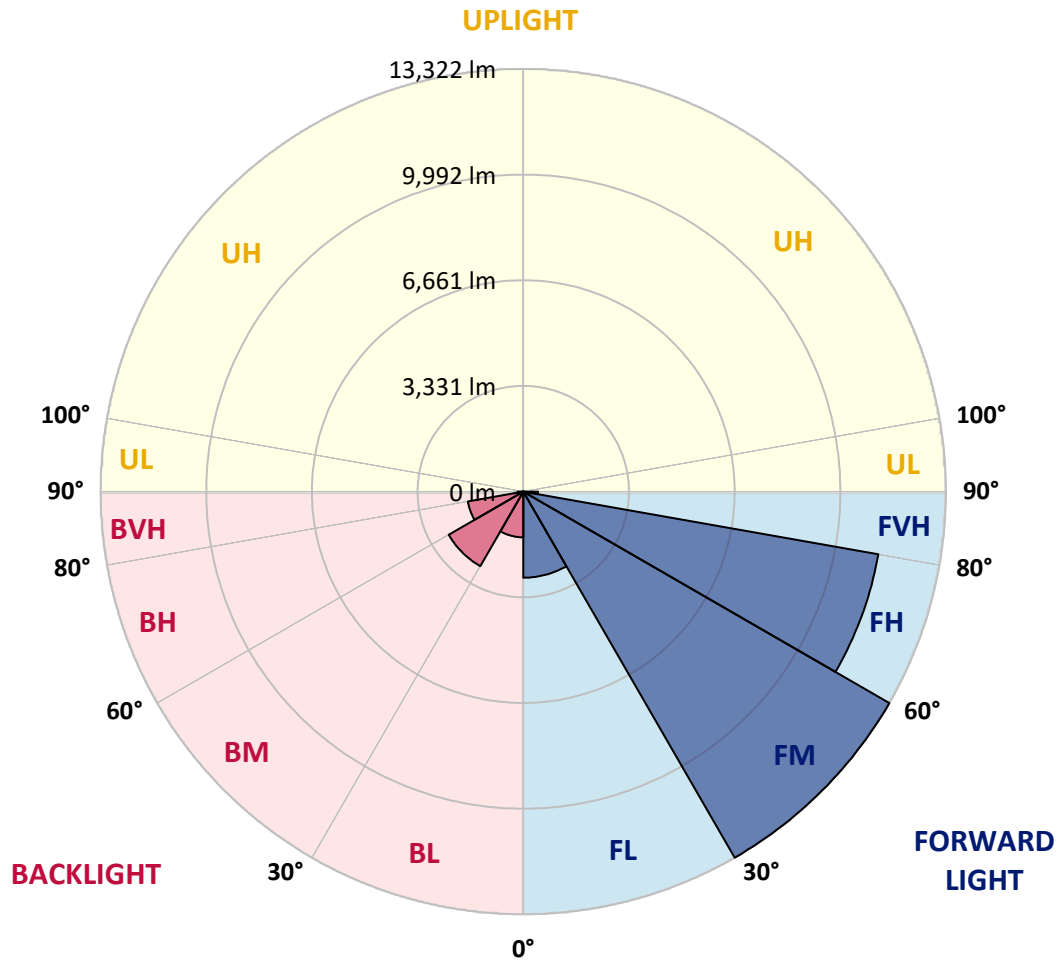
CATALOG NUMBER: GALN-SA8B-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2714.2	8.0			
FM (30°-60°)	13322.4	39.2			
FH (60°-80°)	11362.9	33.4			G4/12000
FVH (80°-90°)	461.1	1.4			G3/500
BL (0°-30°)	1441.2	4.2	B3/2500		
BM (30°-60°)	2713.4	8.0	B3/5000		
BH (60°-80°)	1775.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	179.7	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 II Medium





REPORT NUMBER: P457081

CATALOG NUMBER: GALN-SA8B-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1
2.5°	4628.4	4606.0	4607.9	4576.2	4535.1	4490.3	4426.8	4370.8	4326.0	4299.8	4223.3
5°	5128.8	5106.4	5078.4	5009.3	4979.5	4869.3	4729.3	4602.3	4505.2	4451.1	4298.0
7.5°	5534.0	5528.4	5520.9	5481.7	5405.1	5252.0	5132.6	4912.2	4768.5	4665.8	4404.4
10°	5784.2	5793.5	5799.1	5806.6	5774.8	5694.5	5530.2	5252.0	5069.1	4938.4	4542.6
12.5°	5911.1	5920.5	5952.2	6021.3	6064.2	6054.9	5920.5	5647.9	5395.8	5224.0	4690.1
15°	5989.5	6004.5	6060.5	6152.0	6295.7	6387.2	6321.9	6069.8	5793.5	5590.0	4865.6
17.5°	6075.4	6092.2	6153.8	6284.5	6473.1	6671.0	6742.0	6525.4	6224.8	5982.1	5061.6
20°	6124.0	6146.4	6234.1	6405.9	6626.2	6913.7	7149.0	7035.1	6706.5	6437.6	5287.5
22.5°	6202.4	6221.0	6295.7	6478.7	6742.0	7102.3	7556.0	7531.7	7242.3	6895.1	5535.8
25°	6415.2	6445.1	6482.4	6592.6	6846.5	7294.6	7893.9	8062.0	7761.4	7373.0	5763.6
27.5°	6816.6	6840.9	6839.0	6854.0	6997.7	7460.8	8187.1	8586.6	8276.7	7856.6	5983.9
30°	7274.1	7283.4	7290.9	7257.3	7289.0	7630.7	8455.9	9105.7	8795.7	8353.2	6176.2
32.5°	7830.5	7849.1	7785.6	7699.8	7673.6	7882.7	8678.1	9624.7	9410.0	8857.3	6366.7
35°	8487.7	8536.2	8407.4	8256.1	8149.7	8244.9	8976.8	10154.9	10039.2	9501.5	6618.7
37.5°	9238.2	9298.0	9178.5	8881.6	8730.4	8756.5	9367.0	10810.3	10834.6	10235.2	6994.0
40°	9852.5	9930.9	9934.6	9514.5	9284.9	9314.8	9861.8	11516.0	11794.2	11142.6	7436.5
42.5°	10257.6	10334.2	10414.5	10168.0	9927.2	10097.1	10438.7	12281.5	12873.4	12244.2	8054.5
45°	10702.0	10771.1	10815.9	10703.9	10569.4	11010.1	11135.2	13095.6	14023.5	13474.6	8730.4
47.5°	11217.3	11293.9	11336.8	11230.4	11180.0	11811.0	11885.7	13855.5	15252.0	14669.5	9477.2
50°	11904.4	11962.3	11939.9	11872.6	11861.4	12425.3	12606.4	14566.8	16265.8	15955.9	10252.0
52.5°	12759.5	12828.6	12852.8	12757.6	12714.7	12864.1	13187.1	15214.7	17188.2	17061.2	11079.1
55°	13276.7	13386.8	13756.5	13905.9	14008.6	13431.6	13812.5	15929.8	18015.3	18226.3	11967.9
57.5°	12613.9	12755.8	13582.9	14329.7	15295.0	14850.6	14699.4	16676.6	18842.4	19355.8	13032.1
60°	10997.0	11028.7	12094.8	13470.8	15412.6	16674.7	16549.6	17864.0	19738.6	20494.7	14434.2
62.5°	7628.8	7696.0	8956.3	11152.0	13960.0	17331.9	19697.5	19914.1	21023.1	22199.4	16489.9
65°	3933.9	3846.1	4994.4	7008.9	10524.6	15771.1	22247.9	23683.7	23808.8	24865.5	19383.8
67.5°	2421.6	2460.8	2998.5	4092.6	6222.9	11461.9	21980.9	28289.7	27630.6	28138.5	22070.5
70°	1818.5	1867.1	2236.7	2800.6	3793.9	6553.4	17677.3	29406.2	30326.7	30196.0	22888.3
71°	1581.4	1631.8	2016.4	2548.5	3187.1	5057.9	14893.5	28237.4	30420.0	30397.6	22580.2
72.5°	1348.0	1379.8	1680.4	2158.3	2686.7	3545.5	11189.3	25324.8	29122.4	29867.4	21480.5
75°	1058.6	1082.9	1217.3	1646.7	2115.4	2177.0	6004.5	18986.1	23918.9	25337.9	17882.7
77.5°	862.6	879.4	948.5	1222.9	1631.8	1542.2	3149.7	12358.1	14985.0	16413.3	10534.0
80°	685.2	703.9	745.0	829.0	1222.9	1099.7	1503.0	6262.1	7238.6	7223.7	4204.6
82.5°	532.1	537.7	586.3	608.7	836.4	780.4	814.0	2651.2	2936.9	3034.0	1517.9
85°	336.1	352.9	519.0	466.8	500.4	457.4	401.4	1053.0	1297.6	1278.9	606.8
87.5°	102.7	108.3	175.5	197.9	222.2	199.8	147.5	309.9	379.0	410.8	151.2
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: P457081
 CATALOG NUMBER: GALN-SA8B-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1
2.5°	4193.4	4172.9	4100.1	4040.3	3984.3	3922.7	3870.4	3855.5	3842.4	3836.8	3834.9
5°	4232.6	4171.0	4027.3	3909.6	3816.3	3730.4	3676.2	3652.0	3627.7	3627.7	3635.2
7.5°	4288.6	4176.6	3954.4	3778.9	3661.3	3581.0	3541.8	3538.1	3543.7	3549.3	3551.2
10°	4350.3	4172.9	3848.0	3629.6	3525.0	3487.7	3489.5	3521.3	3551.2	3573.6	3577.3
12.5°	4410.0	4150.5	3722.9	3489.5	3422.3	3429.8	3482.1	3553.0	3610.9	3642.6	3644.5
15°	4477.2	4115.0	3571.7	3357.0	3334.6	3392.5	3489.5	3597.8	3685.6	3737.9	3743.5
17.5°	4533.2	4055.3	3413.0	3228.1	3256.2	3362.6	3497.0	3637.0	3743.5	3808.8	3820.0
20°	4596.7	3978.7	3248.7	3104.9	3185.2	3329.0	3482.1	3633.3	3743.5	3806.9	3821.9
22.5°	4647.1	3870.4	3091.9	3004.1	3121.7	3287.9	3431.7	3553.0	3642.6	3676.2	3698.6
25°	4667.7	3734.1	2944.4	2922.0	3071.3	3220.7	3317.8	3386.8	3414.9	3411.1	3420.5
27.5°	4656.5	3577.3	2817.4	2856.6	3007.8	3116.1	3164.7	3159.1	3108.7	3062.0	3084.4
30°	4609.8	3390.6	2711.0	2789.4	2925.7	2985.4	2978.0	2905.1	2809.9	2722.2	2727.8
32.5°	4525.8	3188.9	2612.0	2712.8	2809.9	2836.1	2785.7	2690.4	2554.1	2440.2	2423.4
35°	4454.8	2996.6	2524.3	2625.1	2694.2	2681.1	2632.6	2509.3	2386.1	2285.3	2268.5
37.5°	4443.6	2832.3	2440.2	2526.1	2565.3	2546.7	2486.9	2382.4	2337.6	2261.0	2251.7
40°	4503.4	2716.6	2354.4	2421.6	2440.2	2425.3	2360.0	2300.2	2341.3	2322.6	2322.6
42.5°	4665.8	2655.0	2277.8	2317.0	2332.0	2343.2	2296.5	2246.1	2296.5	2210.6	2182.6
45°	4923.4	2656.8	2208.7	2214.3	2259.1	2298.4	2266.6	2191.9	2165.8	1994.0	1960.4
47.5°	5302.5	2720.3	2152.7	2117.2	2197.5	2262.9	2218.1	2109.8	1994.0	1880.1	1859.6
50°	5744.9	2834.2	2102.3	2016.4	2115.4	2218.1	2184.5	2057.5	1938.0	1868.9	1855.9
52.5°	6236.0	2978.0	2040.7	1904.4	2014.6	2197.5	2191.9	2050.0	1885.7	1839.1	1827.9
55°	6842.8	3119.9	1964.1	1773.7	1924.9	2180.7	2171.4	1988.4	1874.5	1840.9	1837.2
57.5°	7548.5	3325.2	1854.0	1641.1	1822.3	2111.6	2091.1	1951.1	1837.2	1812.9	1811.0
60°	8685.6	3644.5	1697.2	1519.8	1717.7	1990.3	2016.4	1887.6	1777.4	1771.8	1770.0
62.5°	10181.1	4092.6	1534.7	1394.7	1596.3	1833.5	1908.1	1801.7	1714.0	1742.0	1745.7
65°	12246.1	4469.7	1366.7	1288.3	1461.9	1682.2	1805.4	1721.4	1643.0	1697.2	1697.2
67.5°	13592.2	4477.2	1213.6	1178.1	1325.6	1555.3	1697.2	1626.2	1551.5	1643.0	1646.7
70°	13312.1	3922.7	1086.6	1062.4	1193.1	1419.0	1577.7	1521.7	1435.8	1517.9	1488.0
71°	12860.3	3614.6	1036.2	1017.5	1140.8	1353.6	1521.7	1475.0	1389.1	1443.2	1426.4
72.5°	12139.6	3138.5	954.1	957.8	1062.4	1271.5	1443.2	1394.7	1308.8	1338.7	1333.1
75°	10261.4	2740.8	815.9	832.7	913.0	1131.4	1286.4	1249.1	1161.3	1161.3	1155.7
77.5°	6415.2	1915.6	677.7	687.1	774.8	969.0	1105.3	1073.6	989.5	961.5	954.1
80°	2393.6	989.5	530.2	541.4	595.6	763.6	914.9	885.0	799.1	767.4	737.5
82.5°	905.5	496.6	390.2	380.9	438.8	582.5	717.0	681.5	614.3	537.7	515.3
85°	341.7	246.5	239.0	231.5	257.7	345.4	444.4	436.9	365.9	311.8	306.2
87.5°	89.6	80.3	93.4	69.1	72.8	65.3	67.2	28.0	13.1	5.6	3.7
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)