

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: P318194

Luminaire Tested: **GLEON-SA0A-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0A-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33275 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

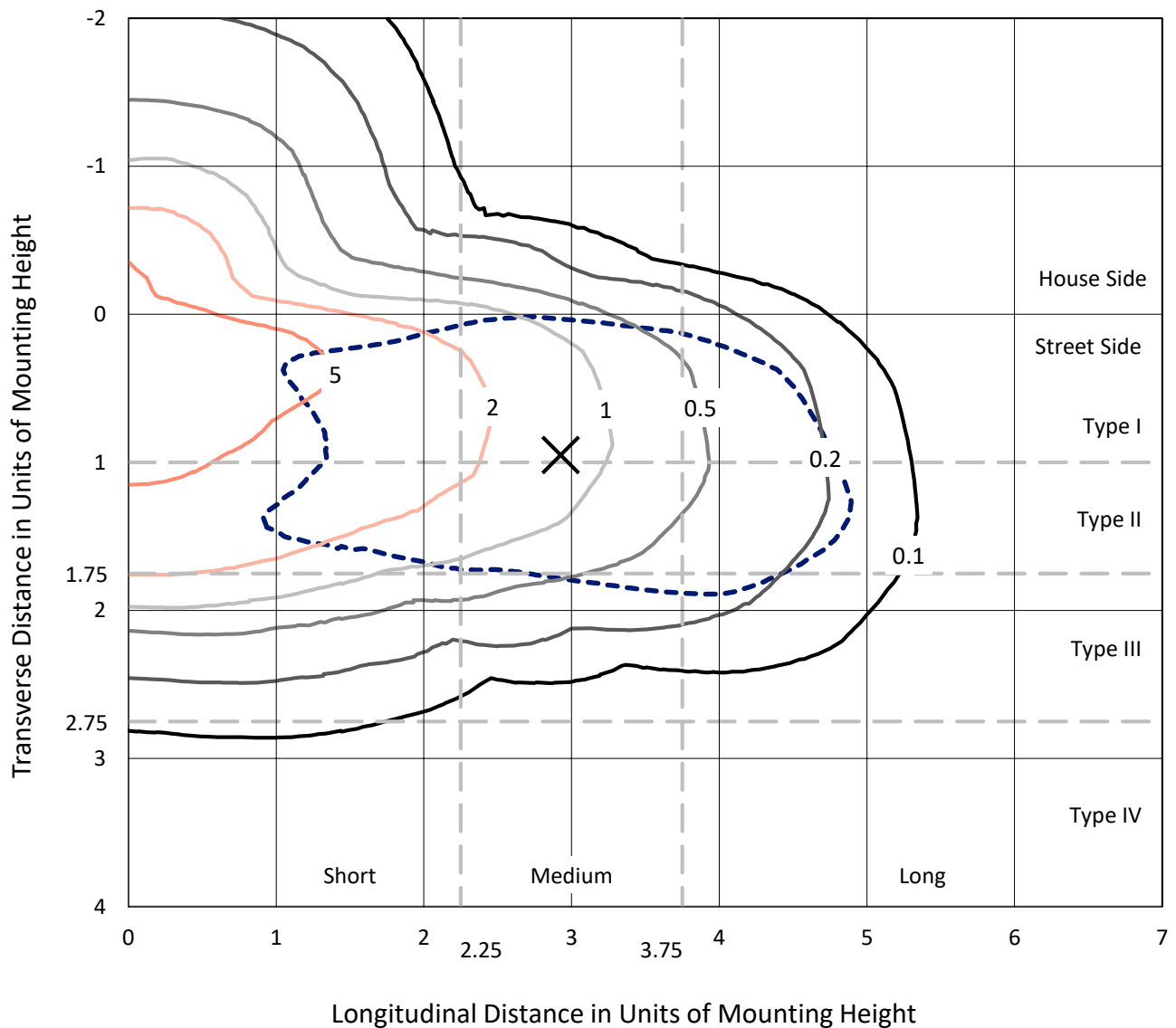
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

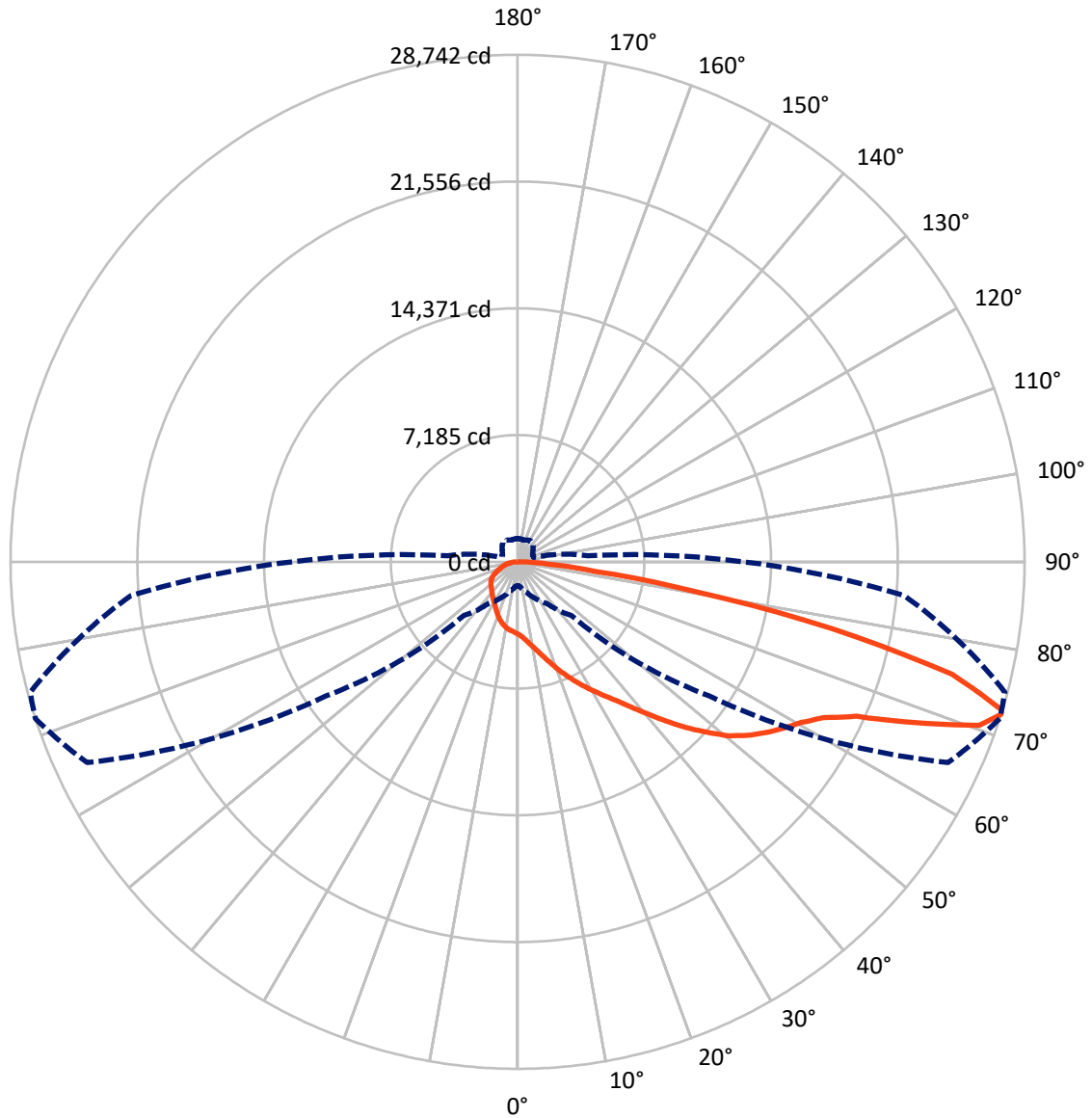
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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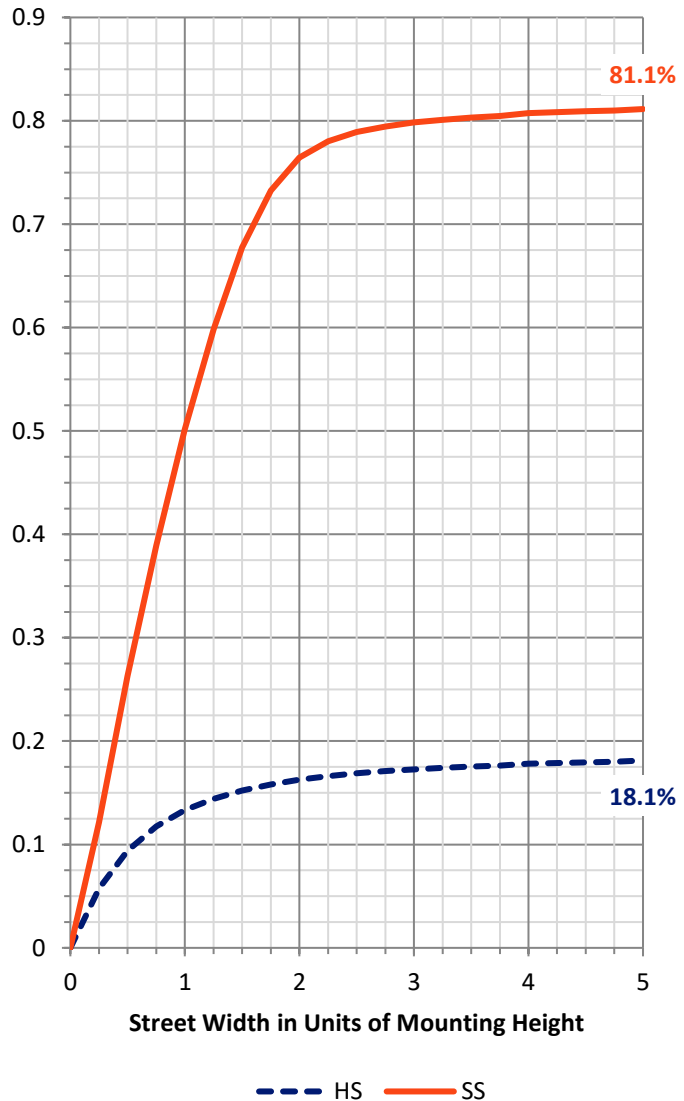
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6172.7	0.0	6172.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	27102.3	0.0	27102.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	33275.0	0.0	33275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.2	1.2
10°-20°	1325.6	4.0
20°-30°	2322.8	7.0
30°-40°	3444.0	10.4
40°-50°	5037.1	15.1
50°-60°	6931.0	20.8
60°-70°	7716.3	23.2
70°-80°	5228.6	15.7
80°-90°	859.4	2.6
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°	33275.0	100.0
0°-180°	33275.0	100.0

Coefficient of Utilization

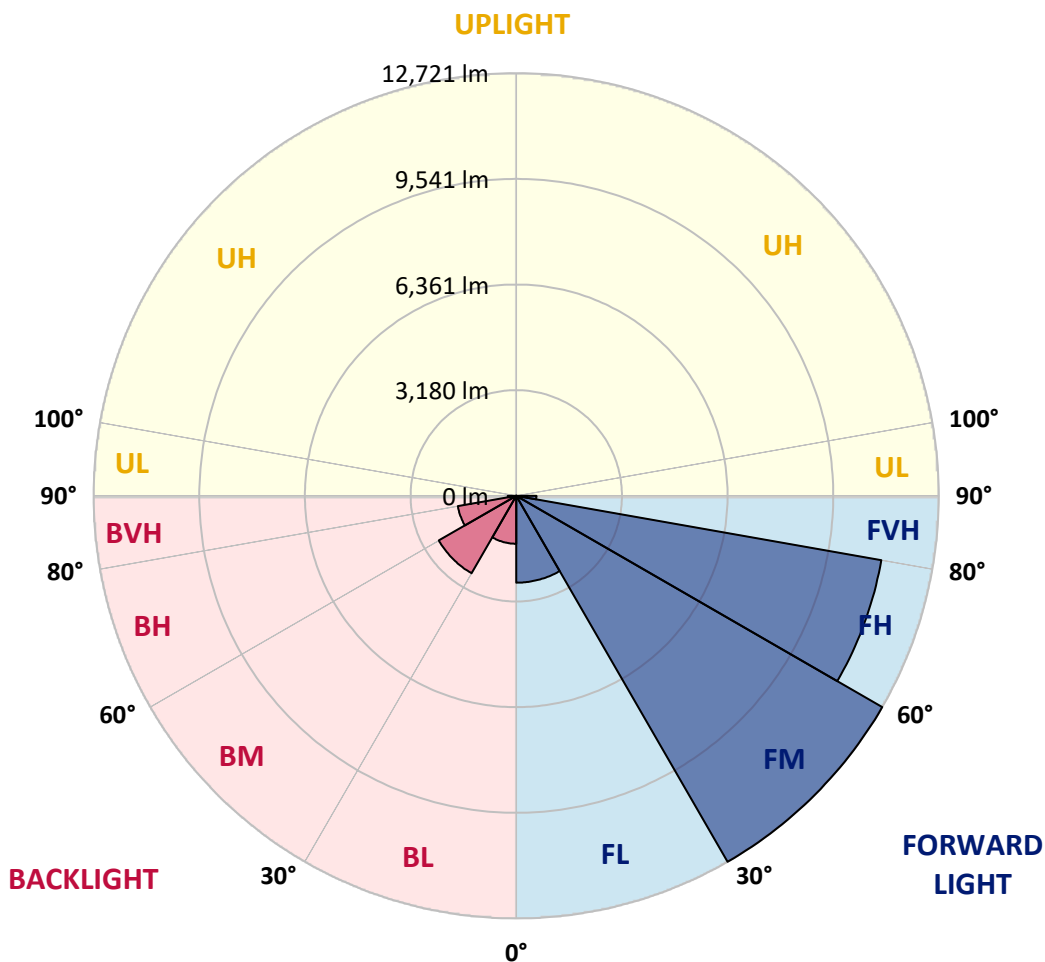


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2615.6	7.9			
FM (30°-60°)	12721.4	38.2			
FH (60°-80°)	11159.0	33.5			G4/12000
FVH (80°-90°)	606.2	1.8			G4/750
BL (0°-30°)	1443.0	4.3	B3/2500		
BM (30°-60°)	2690.7	8.1	B3/5000		
BH (60°-80°)	1785.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	253.2	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4093.7	4093.7	4093.7	4093.7	4093.7	4093.7	4093.7	4093.7	4093.7	4093.7	4093.7
2.5°	4522.2	4515.3	4491.3	4491.3	4445.4	4406.5	4333.2	4283.9	4225.5	4204.8	4136.1
5°	4959.9	4962.2	4932.4	4911.7	4844.1	4761.7	4636.8	4523.3	4409.9	4364.1	4223.2
7.5°	5327.6	5323.1	5315.0	5297.9	5234.8	5150.1	4981.6	4813.2	4645.9	4577.2	4334.3
10°	5563.7	5574.0	5580.9	5588.9	5562.5	5501.8	5342.5	5137.5	4918.6	4824.7	4467.2
12.5°	5682.8	5701.2	5733.2	5788.2	5831.8	5824.9	5709.2	5491.5	5231.4	5113.4	4633.3
15°	5752.7	5776.8	5827.2	5925.7	6048.3	6118.2	6087.3	5890.2	5600.3	5454.8	4836.1
17.5°	5796.2	5815.7	5893.6	6025.4	6207.6	6393.2	6474.5	6309.5	6017.4	5851.2	5068.7
20°	5826.0	5840.9	5938.3	6093.0	6329.0	6624.6	6851.5	6810.2	6476.8	6261.4	5311.6
22.5°	5892.5	5905.1	5997.9	6153.7	6414.9	6796.5	7214.7	7276.5	6961.5	6717.4	5571.7
25°	6078.1	6078.1	6156.0	6264.9	6510.0	6945.4	7521.7	7795.5	7456.4	7172.3	5812.3
27.5°	6432.1	6428.7	6457.3	6495.1	6680.8	7096.7	7795.5	8253.8	7969.7	7659.2	6046.0
30°	6851.5	6874.4	6877.8	6859.5	6946.6	7285.7	8048.8	8737.3	8486.4	8151.9	6285.5
32.5°	7391.1	7406.0	7388.8	7328.1	7315.5	7553.8	8297.4	9243.7	9045.5	8666.3	6504.3
35°	8076.3	8047.6	7993.8	7870.0	7752.0	7912.4	8581.5	9750.2	9673.4	9288.4	6805.6
37.5°	8810.7	8811.8	8745.4	8464.7	8302.0	8370.7	8973.4	10324.2	10433.0	10028.6	7191.7
40°	9399.6	9430.5	9471.7	9102.8	8892.0	8987.1	9471.7	10989.8	11331.3	10906.2	7694.7
42.5°	9810.9	9846.4	9963.3	9731.8	9513.0	9689.4	10058.4	11700.2	12339.5	11919.0	8283.6
45°	10246.3	10265.7	10348.2	10248.6	10108.8	10506.3	10719.4	12435.8	13406.2	12998.3	8942.4
47.5°	10704.6	10725.2	10810.0	10743.5	10670.2	11269.4	11409.2	13128.9	14428.2	14184.1	9645.9
50°	11270.5	11284.3	11364.5	11244.2	11267.1	11844.6	12025.6	13764.8	15499.4	15249.7	10351.7
52.5°	12042.8	12046.2	12157.3	12048.5	11940.8	12266.2	12556.1	14364.0	16339.3	16221.2	11057.4
55°	12647.7	12684.4	13048.7	13025.8	12963.9	12648.9	12999.5	14934.6	17088.6	17144.7	11806.7
57.5°	12261.6	12404.8	13142.7	13662.8	14169.2	13601.0	13598.7	15577.3	17785.2	18051.0	12630.5
60°	10738.9	10933.7	12021.0	13174.7	14759.3	15257.7	14842.9	16362.2	18488.6	18949.2	13662.8
62.5°	7669.5	7990.3	9463.7	11306.1	13950.4	16355.3	17375.0	17607.6	19445.3	19989.6	15004.5
65°	3877.2	4120.0	5355.1	7574.4	11145.7	15638.1	20127.0	20334.4	21107.8	21591.3	17070.2
67.5°	2355.6	2447.3	3049.9	4212.8	6833.1	12181.4	21025.3	24879.5	24325.0	24581.6	20015.9
70°	1735.8	1803.4	2179.2	2797.9	3929.9	7148.2	18268.7	28123.1	27758.7	27730.1	22192.8
72°	1352.0	1401.2	1733.5	2260.5	2873.5	4288.5	13241.2	26925.8	28741.8	28597.4	21993.4
72.5°	1282.1	1325.6	1628.1	2127.6	2715.4	3887.5	11905.3	26118.1	28670.7	28605.4	21735.6
75°	1009.4	1040.3	1205.3	1645.3	2125.3	2205.5	6523.8	20240.5	25434.1	26491.6	19549.6
77.5°	835.2	839.8	926.9	1197.3	1656.7	1559.3	3204.6	14043.2	18212.5	19375.4	13848.4
80°	680.6	686.3	727.5	839.8	1253.4	1153.8	1521.5	8075.1	10197.0	10209.6	6585.7
82.5°	541.9	543.1	588.9	614.1	900.5	824.9	871.9	3791.2	4455.7	4286.2	2367.1
85°	381.5	373.5	575.2	504.1	588.9	529.3	481.2	1500.9	1842.3	1762.1	741.3
87.5°	127.2	131.8	255.5	326.5	343.7	300.2	214.3	575.2	695.5	689.7	234.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4093.7	4093.7	4093.7	4093.7	4093.7	4093.7	4093.7	4093.7	4093.7	4093.7	4093.7
2.5°	4114.3	4077.7	4023.8	3964.2	3917.3	3869.1	3833.6	3815.3	3794.7	3777.5	3798.1
5°	4157.9	4089.1	3974.5	3862.3	3779.8	3706.4	3653.7	3626.2	3601.0	3583.8	3586.1
7.5°	4228.9	4117.8	3925.3	3761.4	3646.9	3567.8	3514.0	3495.6	3479.6	3475.0	3480.7
10°	4304.5	4140.7	3860.0	3642.3	3511.7	3446.4	3422.3	3434.9	3446.4	3456.7	3468.1
12.5°	4390.4	4161.3	3764.9	3502.5	3391.4	3366.2	3390.2	3445.2	3485.3	3509.4	3524.3
15°	4502.7	4179.6	3654.9	3362.7	3288.2	3316.9	3398.2	3493.3	3563.2	3607.9	3614.8
17.5°	4605.8	4178.5	3514.0	3221.8	3204.6	3288.2	3410.8	3544.9	3638.8	3701.9	3714.5
20°	4712.4	4147.5	3350.1	3084.3	3119.8	3257.3	3416.6	3578.1	3691.5	3764.9	3782.1
22.5°	4812.1	4093.7	3170.2	2959.4	3048.8	3216.1	3394.8	3558.6	3672.1	3731.6	3750.0
25°	4879.7	3999.7	2988.1	2854.0	2985.8	3165.7	3323.8	3455.5	3540.3	3570.1	3574.7
27.5°	4914.0	3877.2	2816.2	2762.4	2920.5	3083.2	3192.0	3257.3	3281.4	3279.1	3274.5
30°	4918.6	3715.6	2668.4	2687.9	2844.8	2961.7	3013.3	3000.7	2969.7	2917.0	2921.6
32.5°	4903.7	3533.4	2544.7	2616.8	2748.6	2813.9	2816.2	2755.5	2673.0	2589.3	2566.4
35°	4908.3	3354.7	2435.8	2536.6	2631.7	2660.4	2634.0	2544.7	2432.4	2324.7	2301.8
37.5°	4958.7	3198.9	2341.9	2443.8	2502.3	2509.1	2471.3	2377.4	2294.9	2189.5	2180.3
40°	5079.0	3087.7	2252.5	2339.6	2372.8	2376.2	2322.4	2255.9	2262.8	2206.7	2205.5
42.5°	5295.6	3039.6	2173.4	2230.7	2251.4	2258.2	2217.0	2174.6	2234.2	2197.5	2184.9
45°	5575.1	3051.1	2107.0	2124.2	2162.0	2194.1	2168.9	2117.3	2140.2	1981.0	1928.3
47.5°	5898.2	3124.4	2054.3	2032.5	2097.8	2158.6	2119.6	2041.7	1960.3	1802.2	1772.4
50°	6276.3	3237.8	2006.2	1942.0	2027.9	2110.4	2071.5	1960.3	1837.8	1761.0	1750.7
52.5°	6670.4	3376.5	1958.1	1842.3	1939.7	2073.8	2054.3	1942.0	1790.8	1715.2	1701.4
55°	7117.3	3516.2	1897.3	1726.6	1844.6	2056.6	2046.3	1875.6	1755.3	1712.9	1702.6
57.5°	7673.0	3675.5	1817.1	1606.3	1755.3	1994.7	1962.6	1835.5	1718.6	1686.5	1683.1
60°	8397.1	3910.4	1701.4	1478.0	1646.4	1899.6	1892.7	1777.0	1660.2	1637.2	1632.7
62.5°	9483.2	4298.8	1542.2	1349.7	1525.0	1738.1	1801.1	1698.0	1598.3	1597.1	1599.4
65°	11167.4	4883.1	1369.1	1237.4	1402.4	1601.7	1694.5	1616.6	1535.3	1558.2	1561.6
67.5°	13119.8	5367.7	1199.6	1127.4	1277.5	1472.3	1598.3	1535.3	1451.6	1511.2	1512.4
70°	13769.4	4934.7	1050.6	1018.6	1148.0	1347.4	1494.0	1445.9	1361.1	1420.7	1415.0
72°	12813.8	3983.7	954.4	936.1	1050.6	1244.3	1401.2	1362.3	1278.6	1318.7	1303.8
72.5°	12512.5	3798.1	930.3	915.4	1024.3	1217.9	1377.2	1341.6	1258.0	1292.4	1278.6
75°	11161.7	3298.6	799.7	803.2	893.7	1089.6	1242.0	1230.5	1144.6	1148.0	1143.4
77.5°	8095.7	2418.6	673.7	696.6	760.8	957.8	1105.6	1098.8	1004.8	987.6	984.2
80°	3756.8	1234.0	548.8	559.1	625.6	800.9	942.9	933.8	858.2	836.4	823.8
82.5°	1286.7	586.6	412.5	419.3	484.6	645.0	818.1	812.3	749.3	706.9	680.6
85°	459.4	292.2	288.7	281.8	346.0	507.6	712.6	681.7	588.9	501.8	499.5
87.5°	148.9	124.9	148.9	147.8	201.6	343.7	517.9	441.1	427.4	355.2	348.3
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)