

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: P383371

Luminaire Tested: **GLEON-SA6D-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383371
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-SA6D-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42423.6 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

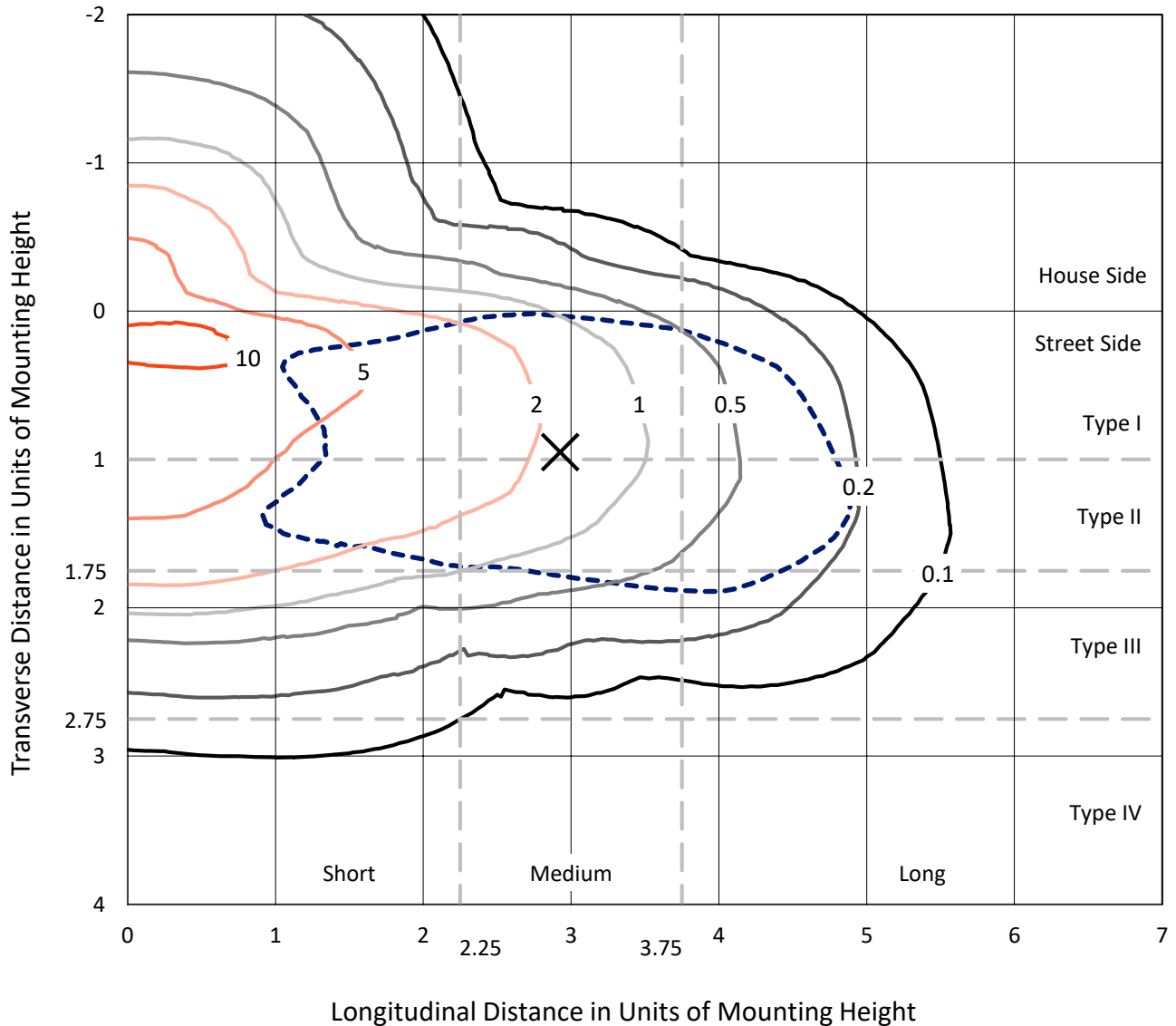
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

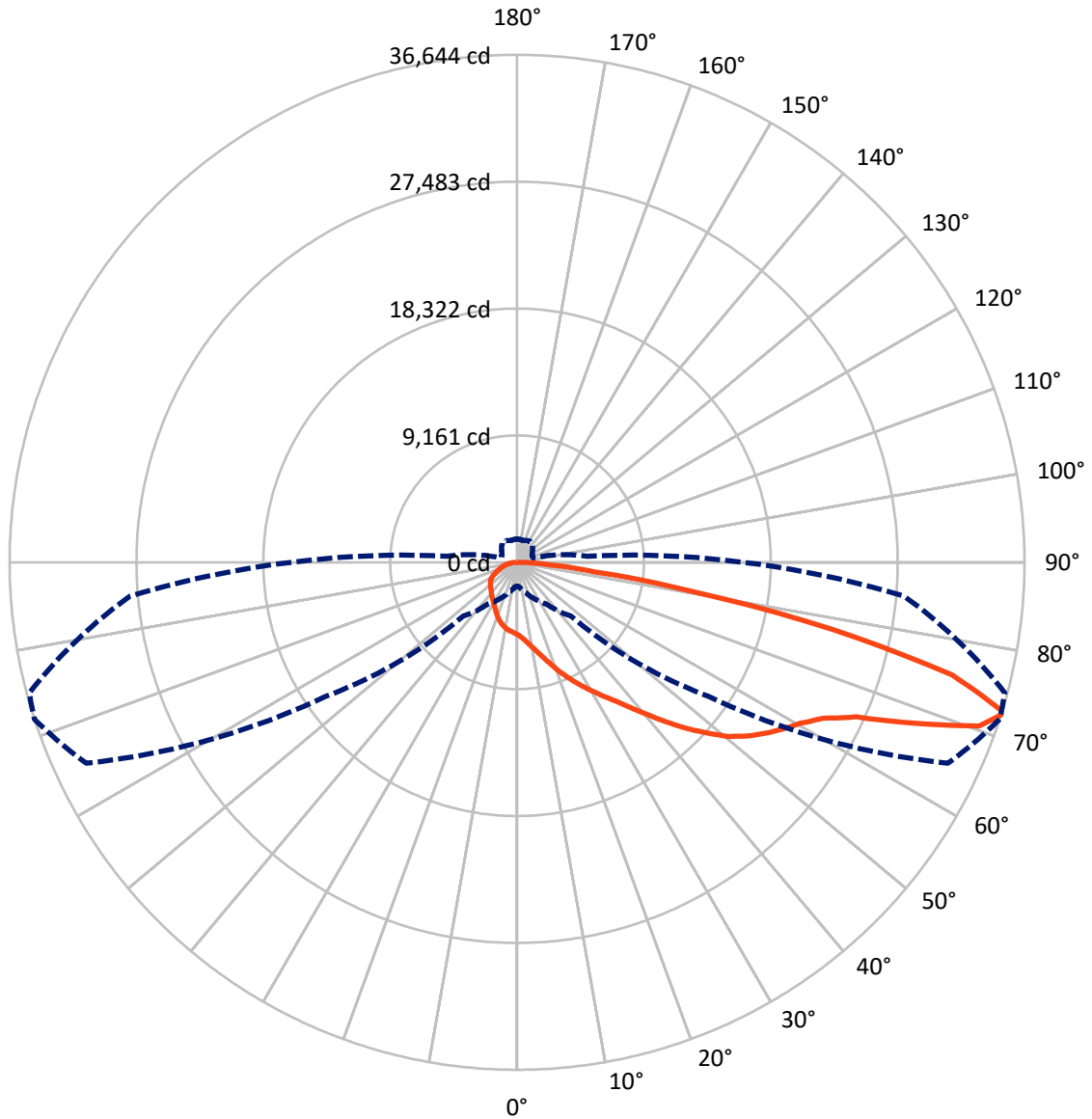
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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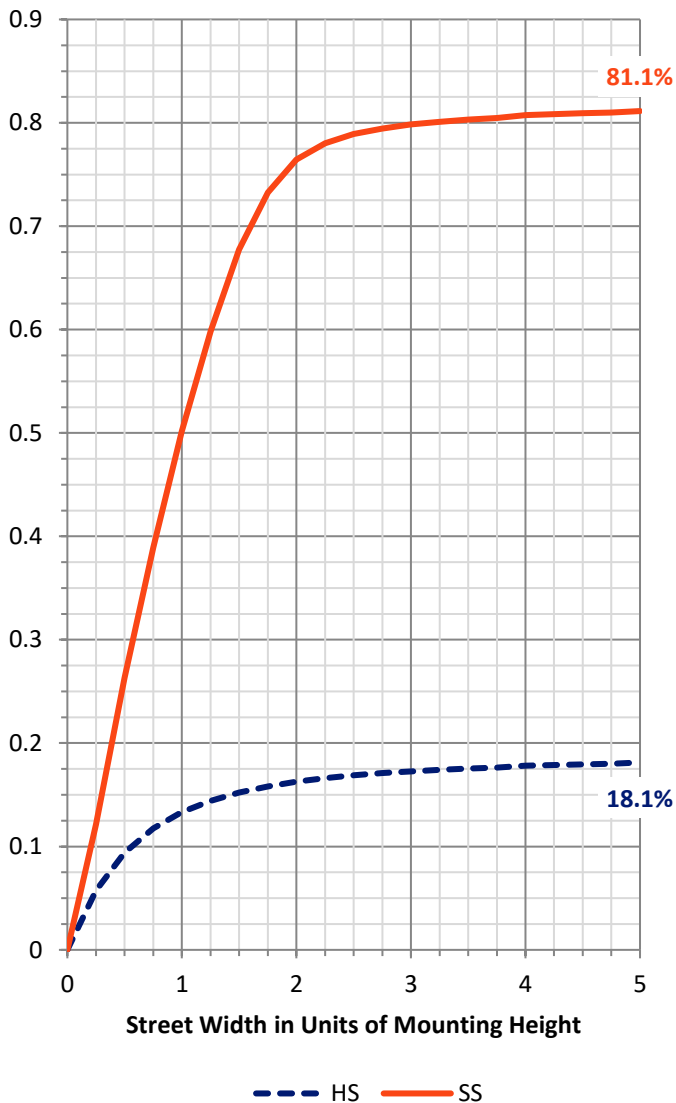
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7869.9	0.0	7869.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	34553.7	0.0	34553.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	42423.6	0.0	42423.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.0	1.2
10°-20°	1690.0	4.0
20°-30°	2961.4	7.0
30°-40°	4390.9	10.4
40°-50°	6422.0	15.1
50°-60°	8836.7	20.8
60°-70°	9837.8	23.2
70°-80°	6666.1	15.7
80°-90°	1095.6	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°	42423.6	100.0
0°-180°	42423.6	100.0

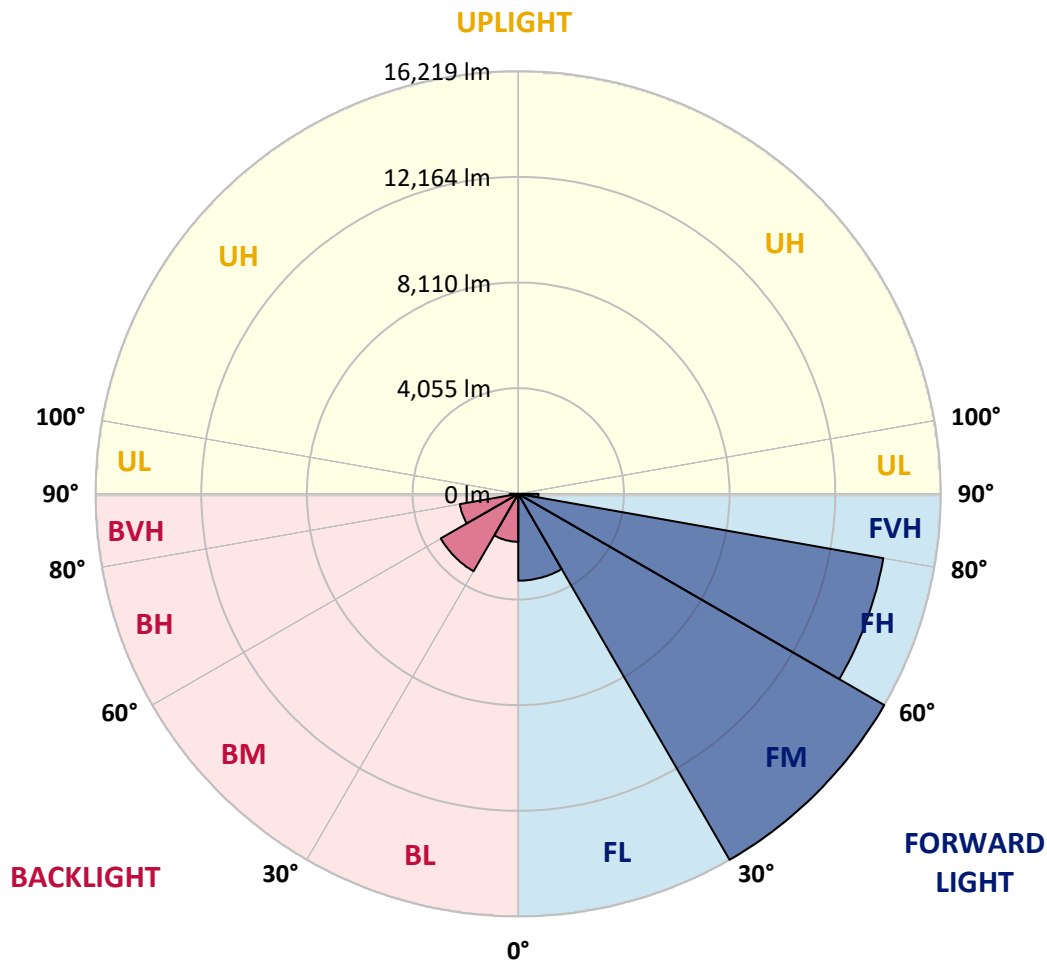


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3334.7	7.9			
FM (30°-60°)	16219.1	38.2			
FH (60°-80°)	14227.1	33.5			G5
FVH (80°-90°)	772.8	1.8			G5
BL (0°-30°)	1839.7	4.3	B3/2500		
BM (30°-60°)	3430.5	8.1	B3/5000		
BH (60°-80°)	2276.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	322.8	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-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5219.2	5219.2	5219.2	5219.2	5219.2	5219.2	5219.2	5219.2	5219.2	5219.2	5219.2
2.5°	5765.5	5756.8	5726.1	5726.1	5667.6	5618.0	5524.5	5461.7	5387.2	5360.9	5273.2
5°	6323.5	6326.4	6288.5	6262.1	6176.0	6070.8	5911.6	5767.0	5622.4	5563.9	5384.3
7.5°	6792.4	6786.6	6776.4	6754.5	6674.1	6566.0	6351.3	6136.6	5923.2	5835.7	5525.9
10°	7093.4	7106.5	7115.3	7125.5	7091.9	7014.5	6811.4	6549.9	6270.9	6151.2	5695.4
12.5°	7245.3	7268.6	7309.5	7379.6	7435.1	7426.4	7278.8	7001.3	6669.7	6519.2	5907.2
15°	7334.4	7365.0	7429.3	7554.9	7711.3	7800.3	7760.9	7509.7	7140.0	6954.6	6165.7
17.5°	7389.9	7414.7	7514.0	7682.0	7914.2	8150.9	8254.6	8044.3	7671.8	7460.0	6462.3
20°	7427.9	7446.8	7571.0	7768.2	8069.1	8446.0	8735.2	8682.6	8257.5	7982.9	6772.0
22.5°	7512.6	7528.7	7647.0	7845.6	8178.7	8665.1	9198.3	9277.1	8875.4	8564.3	7103.5
25°	7749.2	7749.2	7848.6	7987.3	8299.9	8855.0	9589.7	9938.9	9506.4	9144.2	7410.3
27.5°	8200.6	8196.2	8232.7	8280.9	8517.5	9047.8	9938.9	10523.1	10160.9	9765.0	7708.3
30°	8735.2	8764.4	8768.8	8745.5	8856.4	9288.8	10261.6	11139.5	10819.6	10393.2	8013.6
32.5°	9423.3	9442.2	9420.3	9342.9	9326.8	9630.6	10578.7	11785.2	11532.6	11049.0	8292.6
35°	10296.8	10260.3	10191.6	10033.8	9883.3	10087.8	10940.9	12430.9	12333.0	11842.2	8676.8
37.5°	11233.1	11234.6	11149.8	10791.9	10584.5	10672.2	11440.5	13162.7	13301.5	12785.9	9169.0
40°	11983.9	12023.3	12075.9	11605.6	11336.7	11458.0	12075.9	14011.4	14446.7	13904.7	9810.3
42.5°	12508.3	12553.5	12702.6	12407.5	12128.5	12353.4	12823.8	14917.1	15732.2	15196.1	10561.1
45°	13063.4	13088.2	13193.4	13066.3	12888.1	13394.9	13666.6	15854.8	17092.0	16572.0	11401.0
47.5°	13647.6	13673.9	13782.1	13697.3	13603.9	14367.8	14546.0	16738.6	18395.1	18083.9	12297.9
50°	14369.3	14386.8	14489.0	14335.7	14364.8	15101.1	15331.9	17549.3	19760.8	19442.4	13197.8
52.5°	15353.8	15358.1	15499.8	15361.1	15223.8	15638.6	16008.2	18313.3	20831.5	20681.1	14097.6
55°	16125.1	16171.9	16636.3	16607.1	16528.3	16126.5	16573.5	19040.7	21786.8	21858.5	15052.9
57.5°	15632.8	15815.3	16756.1	17419.3	18064.9	17340.4	17337.5	19860.1	22675.0	23013.9	16103.2
60°	13691.5	13939.8	15326.0	16797.0	18817.2	19452.7	18923.8	20860.8	23571.9	24159.1	17419.3
62.5°	9778.2	10187.2	12065.7	14414.6	17785.9	20852.0	22152.1	22448.6	24791.6	25485.5	19129.8
65°	4943.2	5252.8	6827.5	9656.9	14210.0	19937.6	25660.8	25925.2	26911.1	27527.6	21763.5
67.5°	3003.3	3120.1	3888.5	5371.1	8711.8	15530.6	26805.9	31719.8	31012.9	31340.1	25519.1
70°	2213.0	2299.2	2778.3	3567.1	5010.3	9113.5	23291.5	35855.3	35390.7	35354.2	28294.5
72°	1723.6	1786.5	2210.1	2882.0	3663.5	5467.5	16881.7	34328.7	36644.0	36459.9	28040.3
72.5°	1634.6	1690.1	2075.7	2712.6	3461.9	4956.3	15178.5	33298.9	36553.5	36470.2	27711.6
75°	1286.9	1326.3	1536.7	2097.7	2709.7	2811.9	8317.4	25805.4	32426.9	33775.1	24924.6
77.5°	1064.9	1070.7	1181.8	1526.4	2112.2	1988.0	4085.7	17904.3	23219.8	24702.5	17655.9
80°	867.6	875.0	927.5	1070.7	1598.1	1471.0	1939.9	10295.3	13000.6	13016.6	8396.3
82.5°	690.9	692.4	750.8	783.0	1148.1	1051.7	1111.6	4833.6	5680.8	5464.6	3017.8
85°	486.5	476.2	733.3	642.8	750.8	674.9	613.5	1913.6	2348.9	2246.6	945.1
87.5°	162.2	168.0	325.8	416.3	438.2	382.7	273.1	733.3	886.6	879.4	299.5
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°	5219.2	5219.2	5219.2	5219.2	5219.2	5219.2	5219.2	5219.2	5219.2	5219.2	5219.2
2.5°	5245.5	5198.8	5130.1	5054.1	4994.2	4932.9	4887.6	4864.3	4838.0	4816.0	4842.4
5°	5301.0	5213.4	5067.3	4924.2	4819.0	4725.5	4658.3	4623.3	4591.1	4569.1	4572.1
7.5°	5391.6	5249.9	5004.5	4795.6	4649.5	4548.7	4480.1	4456.7	4436.2	4430.4	4437.7
10°	5488.0	5279.1	4921.2	4643.7	4477.1	4393.9	4363.2	4379.3	4393.9	4407.1	4421.7
12.5°	5597.6	5305.3	4800.0	4465.5	4323.8	4291.6	4322.3	4392.4	4443.6	4474.2	4493.2
15°	5740.7	5328.7	4659.8	4287.3	4192.3	4228.9	4332.5	4453.8	4542.9	4599.9	4608.6
17.5°	5872.2	5327.3	4480.1	4107.6	4085.7	4192.3	4348.7	4519.5	4639.3	4719.6	4735.7
20°	6008.0	5287.8	4271.2	3932.3	3977.6	4152.8	4355.9	4561.9	4706.5	4800.0	4821.9
22.5°	6135.1	5219.2	4041.9	3773.0	3887.0	4100.3	4328.2	4537.0	4681.7	4757.6	4781.0
25°	6221.2	5099.4	3809.6	3638.7	3806.7	4036.0	4237.6	4405.6	4513.7	4551.6	4557.5
27.5°	6265.1	4943.2	3590.5	3521.8	3723.4	3930.9	4069.7	4152.8	4183.6	4180.6	4174.8
30°	6270.9	4737.2	3402.0	3426.9	3627.0	3776.0	3841.7	3825.7	3786.2	3719.0	3724.9
32.5°	6252.0	4504.9	3244.3	3336.3	3504.3	3587.6	3590.5	3513.1	3407.9	3301.2	3272.1
35°	6257.8	4277.0	3105.5	3234.1	3355.3	3391.9	3358.2	3244.3	3101.1	2963.8	2934.7
37.5°	6322.0	4078.4	2985.7	3115.7	3190.3	3199.0	3150.8	3031.1	2925.9	2791.5	2779.7
40°	6475.5	3936.7	2871.8	2982.8	3025.2	3029.6	2960.9	2876.2	2884.9	2813.4	2811.9
42.5°	6751.5	3875.3	2771.0	2844.0	2870.4	2879.1	2826.5	2772.5	2848.4	2801.7	2785.6
45°	7108.0	3890.0	2686.3	2708.2	2756.4	2797.3	2765.2	2699.4	2728.7	2525.6	2458.4
47.5°	7519.8	3983.4	2619.1	2591.4	2674.6	2752.1	2702.3	2603.0	2499.3	2297.8	2259.7
50°	8001.9	4128.1	2557.8	2476.0	2585.5	2690.7	2641.0	2499.3	2343.0	2245.1	2232.0
52.5°	8504.4	4304.8	2496.4	2348.9	2473.1	2643.9	2619.1	2476.0	2283.1	2186.7	2169.2
55°	9074.1	4483.0	2418.9	2201.3	2351.8	2622.0	2608.9	2391.2	2237.9	2183.8	2170.7
57.5°	9782.6	4686.1	2316.8	2047.9	2237.9	2543.1	2502.2	2340.1	2191.1	2150.2	2145.8
60°	10705.7	4985.5	2169.2	1884.3	2099.1	2421.9	2413.2	2265.6	2116.6	2087.4	2081.5
62.5°	12090.6	5480.7	1966.1	1720.8	1944.2	2216.0	2296.3	2164.8	2037.8	2036.3	2039.2
65°	14237.8	6225.6	1745.5	1577.6	1787.9	2042.1	2160.4	2061.1	1957.4	1986.6	1991.0
67.5°	16726.9	6843.5	1529.4	1437.4	1628.7	1877.1	2037.8	1957.4	1850.8	1926.7	1928.2
70°	17555.1	6291.4	1339.5	1298.6	1463.6	1717.9	1904.8	1843.4	1735.4	1811.3	1804.0
72°	16336.8	5079.0	1216.8	1193.4	1339.5	1586.3	1786.5	1736.8	1630.2	1681.4	1662.3
72.5°	15952.7	4842.4	1186.1	1167.1	1305.9	1552.8	1755.8	1710.5	1603.8	1647.7	1630.2
75°	14230.5	4205.5	1019.6	1024.0	1139.4	1389.1	1583.4	1568.8	1459.3	1463.6	1457.8
77.5°	10321.5	3083.6	858.9	888.1	969.9	1221.2	1409.6	1400.9	1281.1	1259.2	1254.8
80°	4789.7	1573.2	699.7	712.8	797.6	1021.1	1202.2	1190.5	1094.1	1066.3	1050.2
82.5°	1640.4	747.9	525.9	534.6	617.9	822.4	1043.0	1035.7	955.3	901.3	867.6
85°	585.8	372.5	368.1	359.3	441.2	647.1	908.5	869.1	750.8	639.8	636.9
87.5°	189.8	159.2	189.8	188.5	257.1	438.2	660.3	562.4	544.9	452.8	444.1
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)