

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: P317892

Luminaire Tested: **GLEON-SA8C-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42607 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

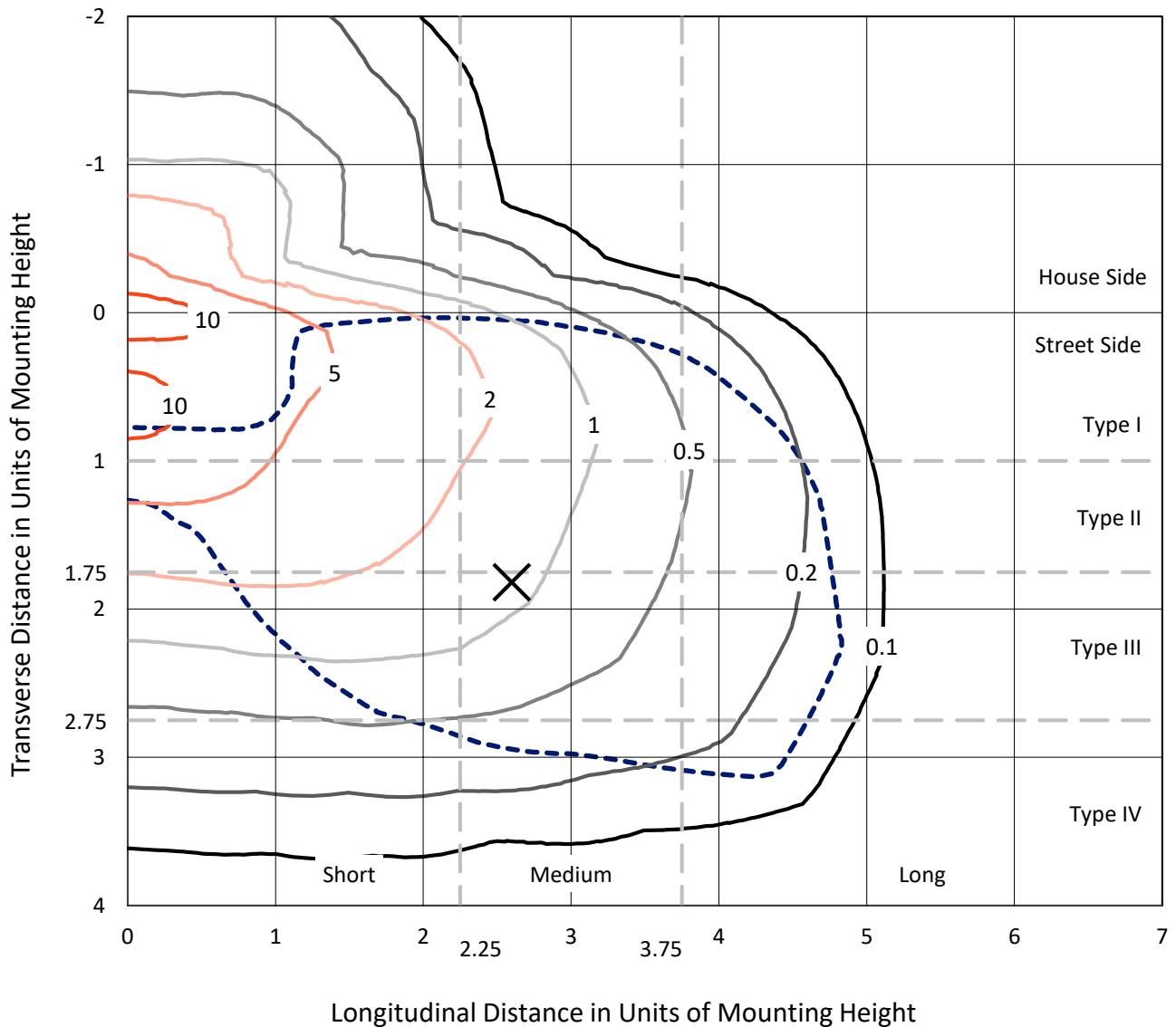
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

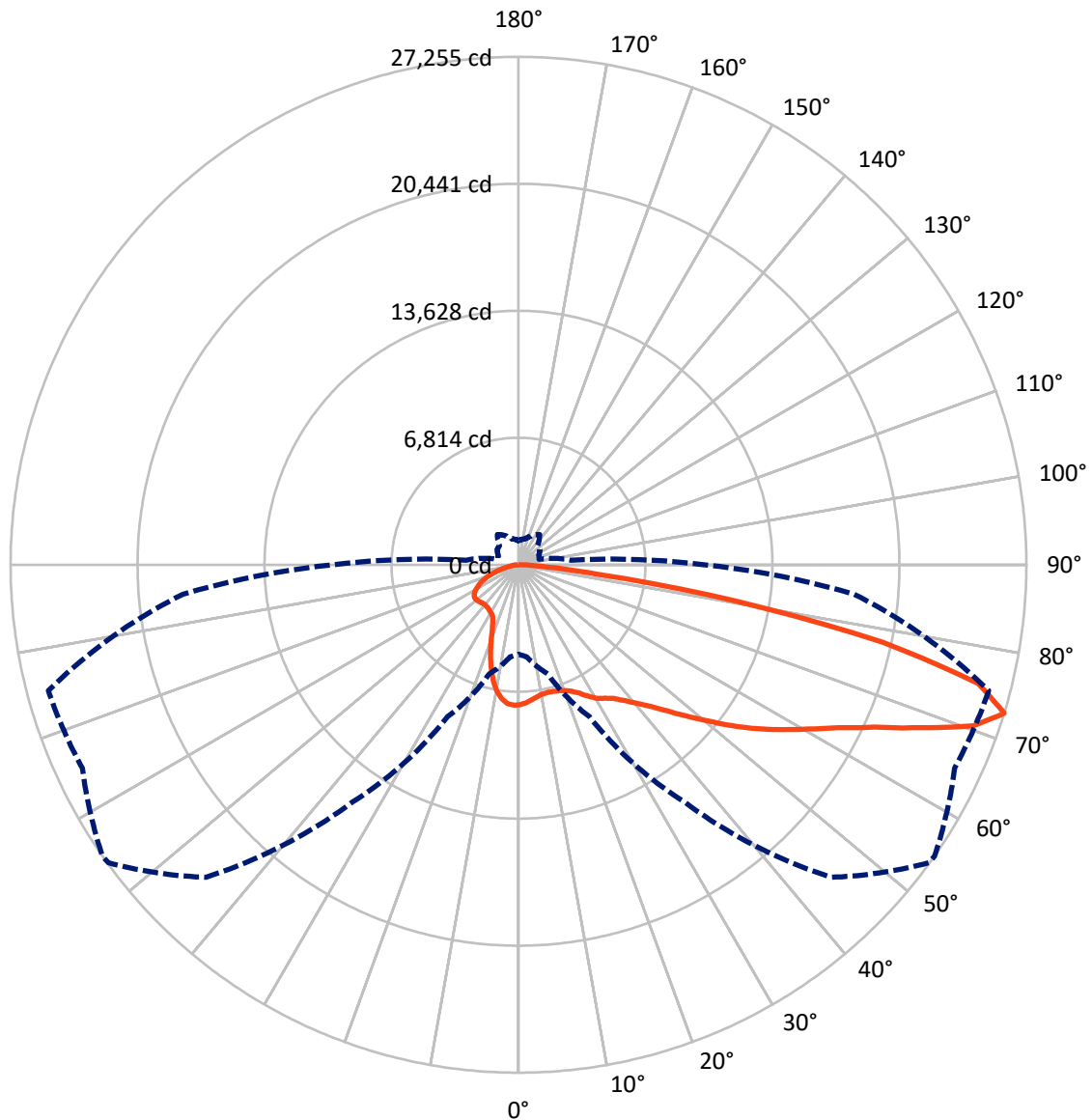
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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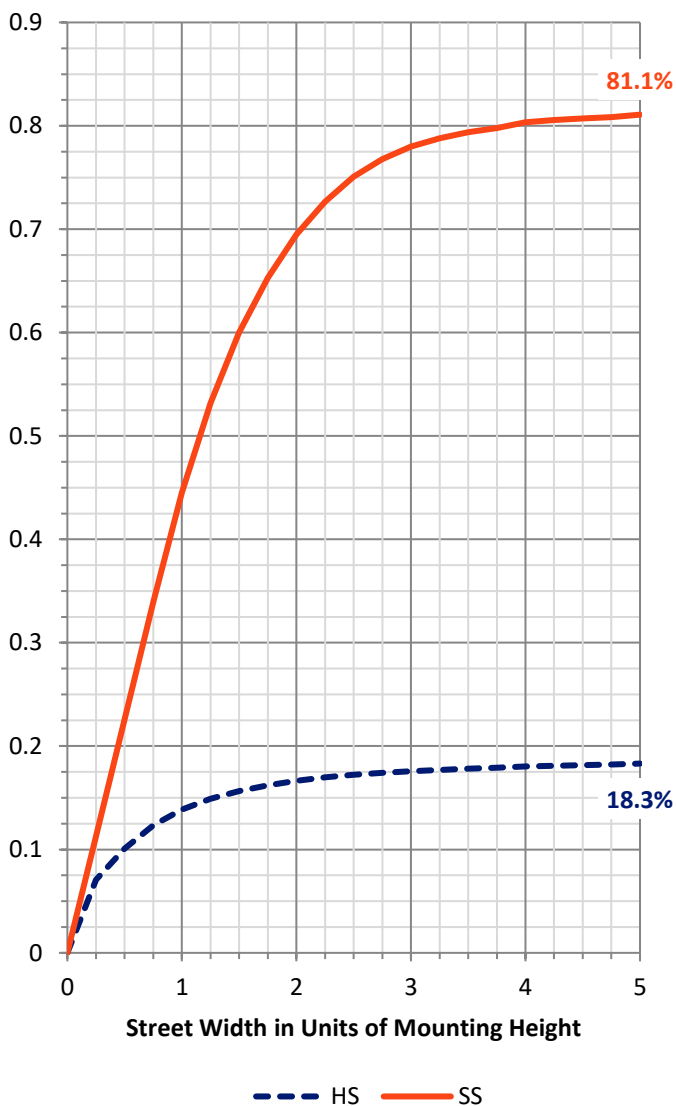
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7919.3	0.0	7919.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	34687.8	0.0	34687.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	42607.0	0.0	42607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.0	1.6
10°-20°	1810.4	4.2
20°-30°	2985.0	7.0
30°-40°	4415.5	10.4
40°-50°	6163.2	14.5
50°-60°	8024.6	18.8
60°-70°	9862.0	23.1
70°-80°	7730.6	18.1
80°-90°	935.5	2.2
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°	42607.0	100.0
0°-180°	42607.0	100.0

Coefficient of Utilization

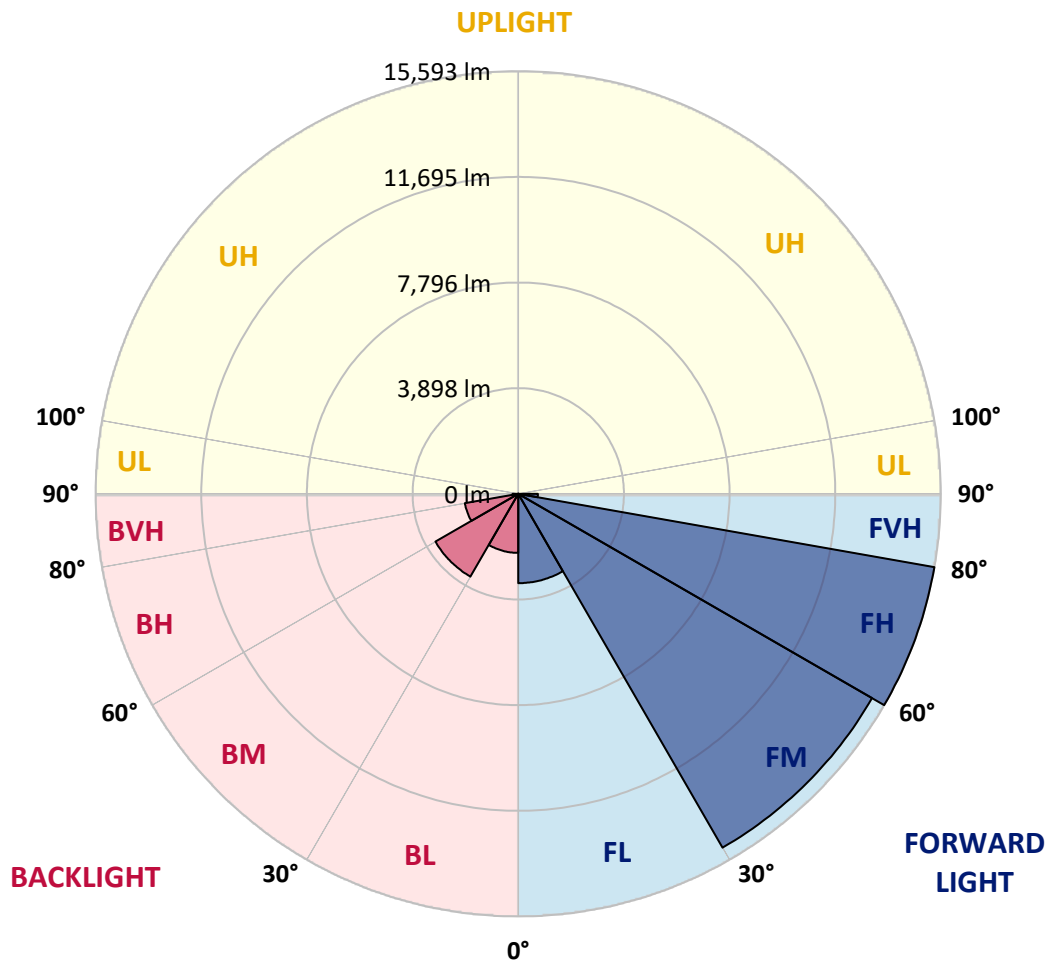


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3296.5	7.7			
FM (30°-60°)	15075.2	35.4			
FH (60°-80°)	15592.7	36.6			G5
FVH (80°-90°)	723.3	1.7			G4/750
BL (0°-30°)	2178.9	5.1	B3/2500		
BM (30°-60°)	3528.1	8.3	B3/5000		
BH (60°-80°)	2000.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	212.2	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-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7515.0	7515.0	7515.0	7515.0	7515.0	7515.0	7515.0	7515.0	7515.0	7515.0	7515.0
2.5°	7270.3	7253.0	7274.6	7304.9	7337.9	7382.6	7408.5	7420.0	7464.6	7481.9	7519.3
5°	6933.6	6924.9	6960.9	7012.7	7086.1	7189.7	7273.2	7289.0	7407.0	7490.5	7566.8
7.5°	6688.9	6688.9	6730.7	6792.5	6874.6	7014.2	7132.2	7153.7	7353.8	7533.7	7674.7
10°	6494.6	6501.8	6550.8	6624.2	6720.6	6868.8	7025.7	7050.1	7339.4	7634.4	7858.9
12.5°	6365.1	6382.4	6427.0	6493.2	6612.6	6792.5	6991.1	7024.2	7369.6	7778.3	8080.5
15°	6447.1	6475.9	6480.2	6507.6	6573.8	6769.5	7011.3	7045.8	7434.4	7925.1	8332.4
17.5°	6806.9	6817.0	6772.4	6714.8	6683.2	6808.4	7071.7	7107.7	7512.1	8070.4	8574.1
20°	7353.8	7348.0	7251.6	7096.2	6935.0	6955.1	7171.0	7208.4	7617.1	8198.5	8815.9
22.5°	8044.5	8024.4	7876.2	7589.8	7314.9	7199.8	7345.1	7376.8	7775.4	8381.3	9074.9
25°	8882.1	8837.5	8641.8	8257.5	7853.1	7556.7	7607.1	7637.3	8005.7	8585.6	9312.4
27.5°	9765.7	9721.1	9472.1	9007.3	8469.1	8007.1	7968.3	7994.2	8267.6	8736.8	9488.0
30°	10689.6	10642.1	10414.7	9893.8	9122.4	8473.4	8305.0	8315.1	8451.8	8818.8	9631.9
32.5°	11617.8	11573.2	11318.5	10714.1	9831.9	8974.2	8548.2	8535.3	8562.6	8903.7	9794.5
35°	12559.0	12576.3	12278.4	11609.2	10617.6	9531.1	8836.0	8808.7	8748.3	9077.8	10024.7
37.5°	13566.4	13554.8	13169.2	12469.8	11439.4	10135.6	9249.1	9244.8	9036.1	9407.4	10386.0
40°	14239.9	14247.0	14012.5	13350.5	12269.7	10804.7	9778.7	9768.6	9495.2	9901.0	10859.4
42.5°	14503.2	14550.7	14611.1	14190.9	13138.9	11580.4	10410.4	10396.0	10135.6	10609.0	11416.3
45°	14521.9	14616.9	14991.1	14937.8	14019.7	12468.3	11217.8	11177.5	10990.4	11550.2	12081.2
47.5°	14360.7	14458.6	15080.3	15382.5	14806.9	13405.2	12161.8	12130.1	11969.0	12727.4	12800.8
50°	14008.2	14101.7	14896.1	15599.8	15454.4	14306.1	13249.8	13166.3	13079.9	14087.3	13623.9
52.5°	13347.6	13527.5	14650.0	15651.6	15841.6	15106.2	14393.8	14339.2	14386.6	15522.1	14448.5
55°	11783.3	11984.8	14015.4	15608.4	16127.9	15778.2	15537.9	15535.0	15781.1	17027.4	15333.6
57.5°	10906.9	11049.4	12723.0	15535.0	16467.6	16446.0	16670.5	16697.8	17177.0	18666.5	16260.3
60°	10411.9	10561.5	12068.3	15263.0	16994.3	17309.4	17826.1	17880.8	18596.0	20481.2	17375.6
62.5°	9961.4	10125.5	11662.4	14709.0	17614.5	18544.2	19210.5	19259.4	20098.4	22346.3	18453.5
65°	9191.5	9377.1	11068.1	14344.9	18178.7	20154.5	20970.5	21003.6	21823.9	24300.6	19278.1
67.5°	8103.5	8273.4	9947.0	13540.5	18596.0	22110.3	23310.5	23329.2	23535.0	25680.7	19699.8
70°	6832.8	6897.6	8349.6	11879.7	18102.4	23939.4	25874.9	25879.3	25095.0	26564.3	19630.7
72.5°	4800.8	4953.4	6061.5	8992.9	15556.6	23716.3	27206.1	27255.0	25820.3	26118.1	18062.1
75°	2944.4	3105.6	3802.1	5449.9	9869.3	18652.1	25136.7	25476.3	24460.3	23287.4	14755.0
77.5°	1968.7	2029.1	2481.0	3177.5	4471.3	10731.3	19325.6	19964.6	20320.0	16982.8	9436.2
80°	1098.0	1213.2	1644.9	1974.4	1988.8	4264.0	11587.6	11737.3	11305.5	6762.3	2911.3
82.5°	581.4	644.7	1098.0	1159.9	1085.1	1427.6	4318.7	4323.0	3612.1	1813.3	864.9
85°	450.4	503.7	752.6	708.0	554.1	633.2	1424.7	1502.4	1229.0	742.6	282.1
87.5°	224.5	279.2	510.9	449.0	217.3	181.3	509.4	544.0	485.0	290.7	102.2
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°	7515.0	7515.0	7515.0	7515.0	7515.0	7515.0	7515.0	7515.0	7515.0	7515.0	7515.0
2.5°	7533.7	7546.6	7562.4	7545.2	7539.4	7516.4	7477.5	7468.9	7448.8	7450.2	7461.7
5°	7599.9	7621.5	7612.8	7546.6	7467.5	7356.7	7241.5	7143.7	7078.9	7074.6	7070.3
7.5°	7726.5	7740.9	7673.3	7484.7	7263.1	7007.0	6765.2	6553.6	6425.6	6393.9	6386.7
10°	7925.1	7922.2	7736.6	7356.7	6914.9	6457.2	6068.7	5775.1	5603.8	5553.5	5540.5
12.5°	8146.7	8113.6	7758.2	7123.5	6422.7	5788.0	5295.9	4969.2	4790.7	4733.2	4718.8
15°	8375.5	8293.5	7704.9	6775.3	5818.3	5067.1	4550.4	4248.2	4151.8	4120.1	4114.4
17.5°	8588.5	8430.2	7552.4	6303.2	5128.9	4348.9	3946.0	3825.1	3848.1	3889.9	3891.3
20°	8797.2	8522.3	7307.7	5707.5	4402.2	3757.5	3620.8	3710.0	3819.4	3904.3	3915.8
22.5°	9003.0	8587.1	6992.6	5019.6	3751.7	3425.0	3521.5	3684.1	3809.3	3901.4	3917.2
25°	9175.7	8602.9	6558.0	4285.6	3299.8	3299.8	3474.0	3628.0	3751.7	3842.4	3858.2
27.5°	9239.0	8496.4	5944.9	3606.4	3072.5	3242.3	3407.8	3535.9	3640.9	3737.3	3754.6
30°	9263.5	8299.3	5236.9	3061.0	2978.9	3180.4	3318.6	3427.9	3527.2	3617.9	3633.7
32.5°	9267.8	8061.8	4485.7	2751.6	2914.2	3115.6	3207.7	3304.2	3410.7	3446.6	3452.4
35°	9295.1	7781.2	3694.2	2593.3	2853.7	3055.2	3128.6	3197.7	3025.0	3037.9	3049.4
37.5°	9374.3	7503.4	3032.2	2504.0	2814.9	3023.5	3111.3	2860.9	2725.6	2694.0	2689.7
40°	9522.5	7207.0	2541.4	2432.1	2800.5	3039.4	3000.5	2671.0	2437.8	2263.7	2237.8
42.5°	9728.3	6887.5	2227.7	2384.6	2810.6	3115.6	2846.5	2488.2	2101.1	1988.8	1974.4
45°	9960.0	6552.2	2057.9	2351.5	2845.1	3174.6	2814.9	2245.0	1944.2	1859.3	1852.1
47.5°	10184.5	6142.1	1970.1	2337.1	2892.6	3127.2	2681.0	2170.2	1869.4	1824.8	1829.1
50°	10442.1	5772.2	1916.9	2321.3	2934.3	3096.9	2529.9	2131.3	1840.6	1895.3	1952.9
52.5°	10659.4	5389.4	1869.4	2289.6	2950.1	3043.7	2491.1	2138.5	1840.6	1945.7	2000.3
55°	10917.0	5100.2	1814.7	2223.4	2919.9	2892.6	2463.7	2181.7	1862.2	1796.0	1801.7
57.5°	11249.4	5005.2	1754.3	2119.8	2819.2	2672.4	2450.8	2223.4	1849.2	1807.5	1821.9
60°	11709.9	5105.9	1729.8	1984.5	2662.3	2499.7	2452.2	2201.8	1758.6	1686.6	1688.1
62.5°	12148.8	5218.2	1728.4	1899.6	2469.5	2345.7	2419.1	2131.3	1712.5	1670.8	1686.6
65°	12292.8	5104.5	1659.3	1804.6	2252.2	2161.5	2358.7	2056.5	1678.0	1614.7	1611.8
67.5°	12099.9	4751.9	1519.7	1650.6	2003.2	1947.1	2279.5	1967.2	1623.3	1571.5	1562.9
70°	11527.2	3964.7	1347.0	1447.7	1719.7	1705.3	2154.3	1863.6	1549.9	1505.3	1467.9
72.5°	9985.9	2824.9	1135.4	1204.5	1400.2	1446.3	1981.6	1728.4	1446.3	1349.9	1292.3
75°	8201.4	2091.0	932.5	946.9	1063.5	1188.7	1744.2	1570.1	1324.0	1159.9	1115.3
77.5°	5022.4	1279.4	742.6	748.3	762.7	948.4	1436.2	1393.0	1168.5	967.1	935.4
80°	1626.2	698.0	536.8	564.1	521.0	695.1	1111.0	1185.8	1003.0	808.8	774.2
82.5°	618.8	407.3	362.7	381.4	361.2	466.3	810.2	949.8	821.7	664.9	541.1
85°	299.3	230.3	214.4	240.3	223.1	238.9	518.1	699.4	623.1	433.2	402.9
87.5°	106.5	102.2	82.0	110.8	95.0	84.9	158.3	352.6	411.6	297.9	266.2
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)