

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: P383717

Luminaire Tested: **GLEON-SA9D-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64165.9 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

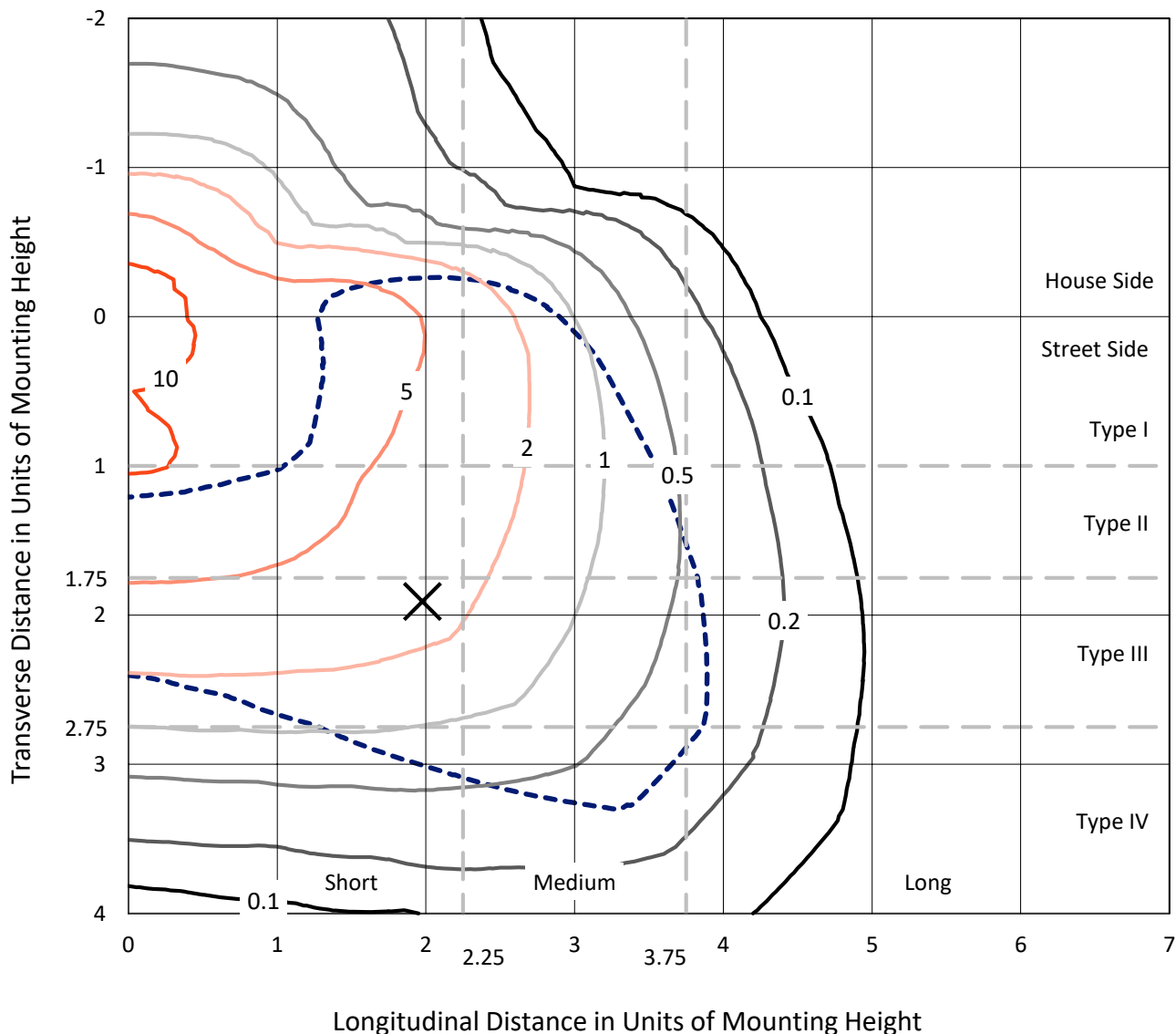
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

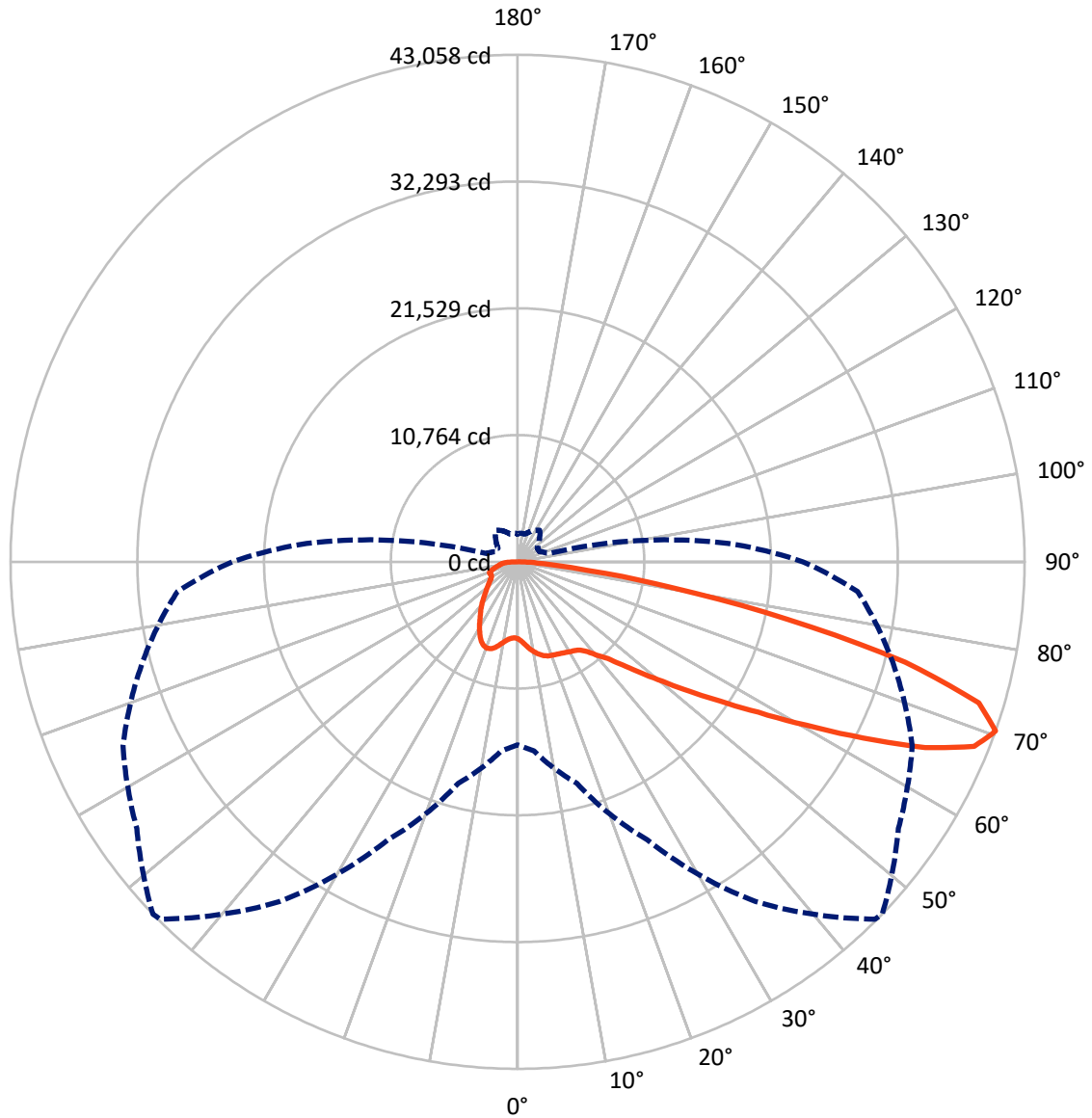
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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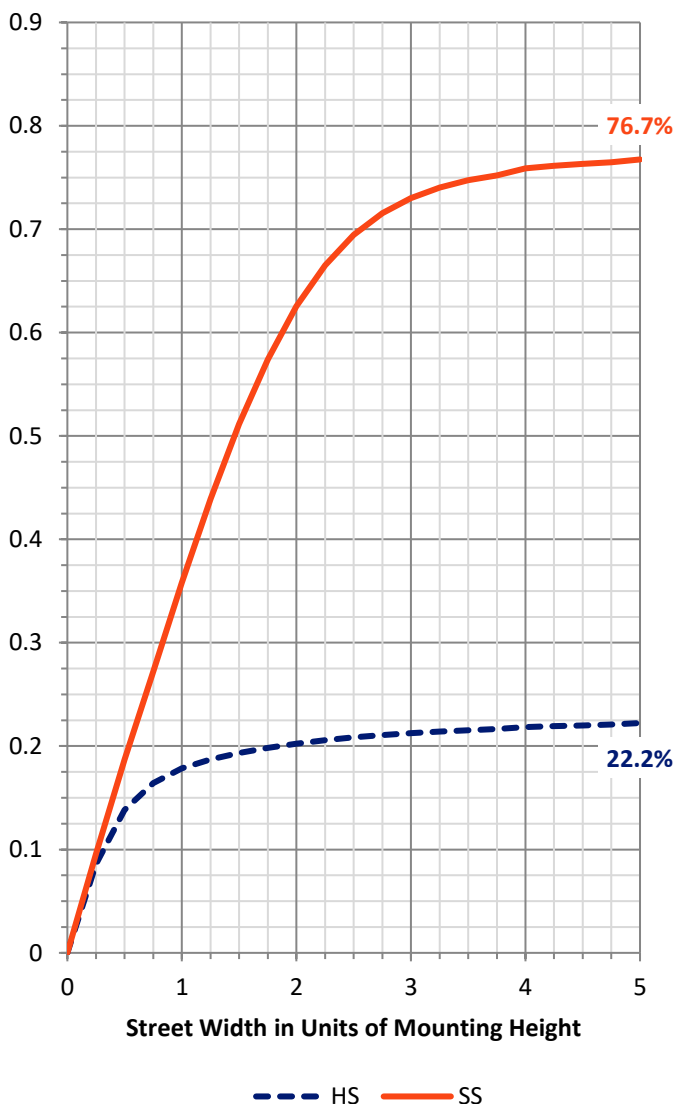
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14706.6	0.0	14706.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	49459.3	0.0	49459.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	64165.9	0.0	64165.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.4	1.0
10°-20°	2220.3	3.5
20°-30°	3702.1	5.8
30°-40°	5253.6	8.2
40°-50°	7727.7	12.0
50°-60°	13086.8	20.4
60°-70°	18576.5	29.0
70°-80°	11285.4	17.6
80°-90°	1647.0	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°	64165.9	100.0
0°-180°	64165.9	100.0

Coefficient of Utilization



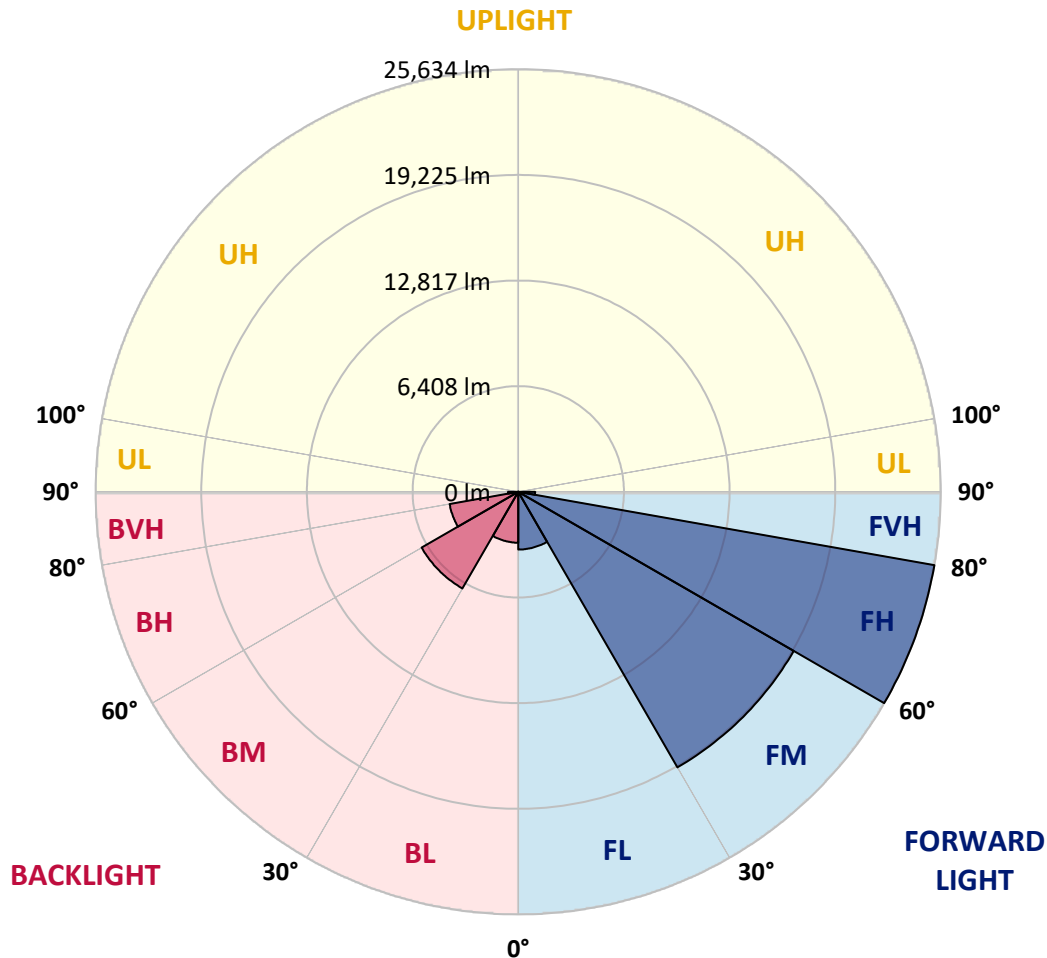
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3501.2	5.5			
FM (30°-60°)	19298.2	30.1			
FH (60°-80°)	25633.9	39.9			G5
FVH (80°-90°)	1025.9	1.6			G5
BL (0°-30°)	3087.7	4.8	B4/5000		
BM (30°-60°)	6769.9	10.6	B4/8500		
BH (60°-80°)	4228.0	6.6	B4/5000		G4/5000
BVH (80°-90°)	621.0	1.0			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	6537.2	6537.2	6537.2	6537.2	6537.2	6537.2	6537.2	6537.2	6537.2	6537.2	6537.2
2.5°	6864.5	6868.9	6877.6	6855.6	6794.1	6776.6	6770.0	6706.3	6664.6	6603.1	6550.5
5°	7413.4	7417.8	7404.7	7343.1	7207.0	7106.0	7097.2	6952.3	6820.5	6679.9	6574.6
7.5°	7986.5	7993.1	7951.4	7835.1	7644.0	7468.3	7457.3	7259.7	7059.9	6846.9	6688.8
10°	8493.9	8467.5	8399.4	8236.9	8010.8	7795.5	7786.7	7580.3	7349.7	7092.8	6882.0
12.5°	8832.0	8810.0	8722.2	8524.6	8276.4	8078.8	8061.2	7870.2	7646.2	7365.1	7112.6
15°	9018.7	9034.1	8915.5	8691.4	8449.9	8283.0	8267.7	8131.5	7931.7	7648.4	7358.5
17.5°	9042.8	9055.9	8941.7	8720.0	8522.4	8408.1	8401.6	8311.5	8166.6	7894.3	7591.3
20°	8902.2	8911.0	8816.6	8634.3	8504.8	8469.6	8467.5	8427.9	8320.3	8078.8	7784.6
22.5°	8698.0	8704.7	8636.6	8504.8	8460.9	8515.7	8531.1	8515.7	8438.9	8212.7	7936.0
25°	8647.6	8643.2	8572.8	8438.9	8476.2	8592.6	8612.4	8619.0	8566.3	8368.7	8129.3
27.5°	8891.2	8875.9	8741.9	8526.7	8551.0	8691.4	8717.8	8781.5	8748.5	8575.1	8348.9
30°	9596.2	9569.8	9295.4	8860.5	8741.9	8814.4	8847.4	8948.4	8955.0	8810.0	8640.9
32.5°	10786.4	10753.4	10261.6	9484.2	9064.8	8939.6	8970.3	9121.8	9203.1	9091.1	8908.9
35°	12290.6	12253.2	11607.6	10544.8	9604.9	9178.9	9200.9	9321.7	9484.2	9326.1	9084.5
37.5°	13858.4	13768.5	13146.9	11792.1	10463.5	9690.6	9690.6	9706.0	9782.8	9453.4	9291.0
40°	15417.6	15327.5	14765.4	13259.0	11574.7	10496.5	10446.0	10105.6	10044.1	9760.8	9706.0
42.5°	16866.9	16840.5	16508.9	14916.9	12879.1	11289.2	11218.9	10641.4	10654.6	10478.9	10481.1
45°	18408.4	18408.4	18138.3	16590.2	14398.7	12562.9	12492.6	11642.8	11774.5	11693.3	11888.7
47.5°	19666.6	19706.1	19668.9	18333.7	16166.4	14181.2	14053.9	13030.6	13399.5	13678.4	14247.1
50°	20951.3	21012.7	21019.3	20246.3	18303.0	16104.9	15959.9	14873.0	15696.4	16495.8	17613.5
52.5°	22815.7	22954.0	22402.8	22154.6	20920.5	18388.7	18245.9	17242.4	18617.0	19739.1	21664.9
55°	24543.8	24423.0	24029.9	24183.6	23722.5	20988.6	20881.0	20000.4	21871.3	23329.5	25830.6
57.5°	25479.2	25470.5	25865.7	26524.5	26744.1	24194.6	24104.6	23248.2	25540.7	26636.5	29741.5
60°	26577.2	26592.6	27571.9	29067.4	29972.1	28186.9	28147.3	27497.3	29104.7	29724.0	32809.2
62.5°	26730.9	27007.6	28694.1	31267.7	32993.6	32850.9	32938.8	31324.8	32293.2	32187.8	35099.6
65°	24963.2	25327.8	28380.1	31933.1	35997.7	37952.1	38033.3	35174.2	34807.6	34293.7	35918.6
67.5°	21340.0	21880.1	25195.9	30485.9	36988.0	41722.4	41836.6	38158.5	36893.7	35007.4	33946.7
70°	15529.6	16129.0	19466.8	26037.0	35222.6	42928.0	43057.6	39478.2	36972.7	32976.1	28979.5
72.5°	9381.0	9850.9	12602.3	19168.2	29728.4	40732.1	40962.7	37805.0	33755.7	27932.1	21399.2
75°	4119.6	4427.0	6093.7	11045.5	21282.9	33700.8	33988.4	32359.1	27427.0	20299.1	12648.5
77.5°	1754.6	1842.4	2499.0	4798.1	12031.4	23028.6	23423.9	23643.4	18608.2	11045.5	5344.8
80°	1093.5	1128.7	1414.2	2171.8	5630.4	12934.0	13360.0	13911.2	9240.4	4060.2	1866.5
82.5°	665.4	704.9	939.8	1313.2	2931.6	5863.1	6067.4	6456.0	3585.9	1754.6	966.2
85°	399.6	428.2	575.3	830.1	1668.9	2305.7	2303.5	2547.2	1688.6	1128.7	509.5
87.5°	191.1	213.0	307.4	430.4	841.0	865.2	810.3	917.9	1025.5	740.0	256.9
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°	6537.2	6537.2	6537.2	6537.2	6537.2	6537.2	6537.2	6537.2	6537.2	6537.2	6537.2
2.5°	6532.9	6524.1	6495.5	6473.6	6469.1	6456.0	6445.0	6451.6	6460.4	6462.6	6462.6
5°	6530.7	6506.5	6469.1	6453.8	6473.6	6500.0	6532.9	6576.8	6603.1	6622.9	6636.1
7.5°	6636.1	6590.0	6548.2	6539.5	6579.0	6649.2	6723.9	6816.1	6879.9	6923.7	6932.5
10°	6811.8	6754.7	6712.9	6721.7	6792.0	6893.0	6998.4	7116.9	7213.6	7272.9	7277.2
12.5°	7013.8	6958.8	6919.3	6956.7	7073.1	7196.0	7305.8	7409.1	7496.9	7556.2	7556.2
15°	7246.5	7207.0	7160.9	7246.5	7404.7	7514.4	7560.5	7611.0	7659.4	7703.2	7694.5
17.5°	7470.5	7433.2	7409.1	7510.0	7674.7	7725.2	7694.5	7657.1	7657.1	7681.4	7685.7
20°	7663.7	7630.9	7646.2	7745.0	7830.7	7778.0	7663.7	7545.2	7496.9	7510.0	7523.2
22.5°	7832.8	7817.5	7863.6	7909.7	7848.2	7663.7	7452.9	7292.6	7233.4	7229.0	7233.4
25°	8030.5	8028.3	8085.4	8001.9	7729.6	7389.3	7106.0	6950.1	6917.1	6943.5	6987.4
27.5°	8276.4	8300.6	8329.2	8023.9	7488.1	6974.2	6686.6	6579.0	6611.9	6675.6	6717.3
30°	8590.5	8656.3	8594.8	7969.0	7141.2	6500.0	6225.4	6194.7	6284.7	6374.8	6418.6
32.5°	8895.6	8998.8	8849.5	7826.2	6693.2	5997.0	5784.1	5775.2	5885.1	5972.9	6034.4
35°	9141.6	9345.8	9040.6	7543.0	6174.9	5533.7	5377.8	5318.5	5358.1	5461.3	5531.5
37.5°	9462.2	9802.6	9172.4	7110.4	5612.8	5151.6	4969.3	4833.2	4798.1	4839.8	4875.0
40°	10048.5	10498.7	9233.9	6506.5	5063.8	4769.5	4585.1	4385.3	4246.9	4145.9	4148.1
42.5°	11006.0	11405.6	9194.3	5773.1	4556.6	4396.3	4187.6	3957.0	3733.1	3504.7	3487.2
45°	12560.6	12753.9	9075.7	4995.7	4110.7	4005.4	3809.9	3579.4	3280.7	3021.6	2997.4
47.5°	15048.6	14620.5	8891.2	4317.2	3717.7	3673.7	3493.7	3228.0	2911.8	2703.2	2685.7
50°	18441.3	17314.9	8801.3	3777.0	3370.7	3383.9	3236.8	2955.7	2657.1	2503.3	2485.7
52.5°	22499.4	20452.8	8974.7	3359.7	3091.9	3138.0	3028.2	2764.6	2514.3	2393.5	2376.0
55°	26709.0	23702.8	9161.4	3056.7	2828.4	2918.4	2881.1	2663.7	2437.5	2325.5	2310.1
57.5°	30312.5	26129.3	8788.0	2810.8	2593.3	2733.9	2766.9	2599.9	2398.0	2296.9	2279.4
60°	32580.9	27106.5	7808.7	2580.2	2406.7	2586.8	2701.0	2582.4	2413.4	2404.5	2391.4
62.5°	33656.8	27020.7	6339.6	2398.0	2290.3	2523.1	2749.3	2681.2	2589.0	2668.0	2674.7
65°	33173.7	25729.6	4721.3	2277.2	2206.9	2547.2	2894.2	2867.9	2639.5	2718.5	2729.5
67.5°	29994.1	22648.7	3495.9	2171.8	2114.7	2615.3	3157.8	2929.3	2540.7	2597.8	2562.6
70°	24243.0	17956.0	2696.6	2053.2	2020.2	2606.6	3276.3	2892.0	2433.1	2446.2	2351.8
72.5°	16717.6	12244.4	2193.7	1943.4	1884.1	2376.0	3192.9	2799.8	2343.0	2242.0	2116.8
75°	9091.1	6572.3	1864.3	1829.2	1644.7	2086.1	3039.2	2733.9	2261.8	2127.8	2057.6
77.5°	3577.1	2727.3	1618.4	1673.2	1438.3	1842.4	2867.9	2608.7	2149.8	1974.1	1939.0
80°	1460.3	1392.2	1341.7	1447.1	1236.3	1611.8	2661.4	2461.6	2015.9	1831.4	1761.1
82.5°	827.9	865.2	1043.1	1141.9	1003.6	1484.4	2562.6	2343.0	1855.5	1640.4	1556.9
85°	423.9	507.2	726.9	819.1	737.8	1262.6	2360.6	2051.0	1488.8	1256.1	1262.6
87.5°	204.2	283.3	459.0	513.8	478.7	913.5	1763.3	1486.7	1159.4	917.9	889.3
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)