

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: P531233

Luminaire Tested: **GALN-SA6C-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22673 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

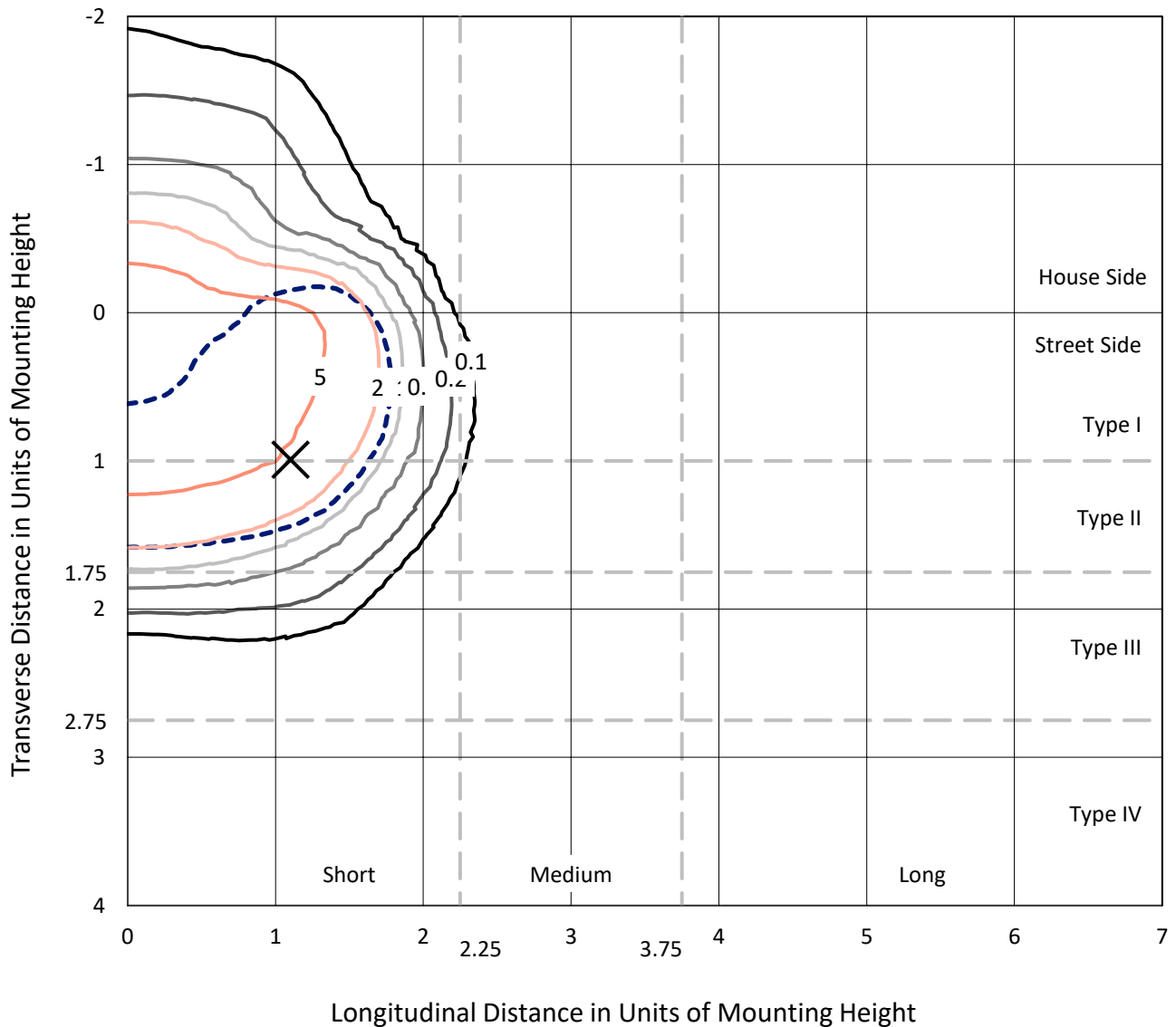
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

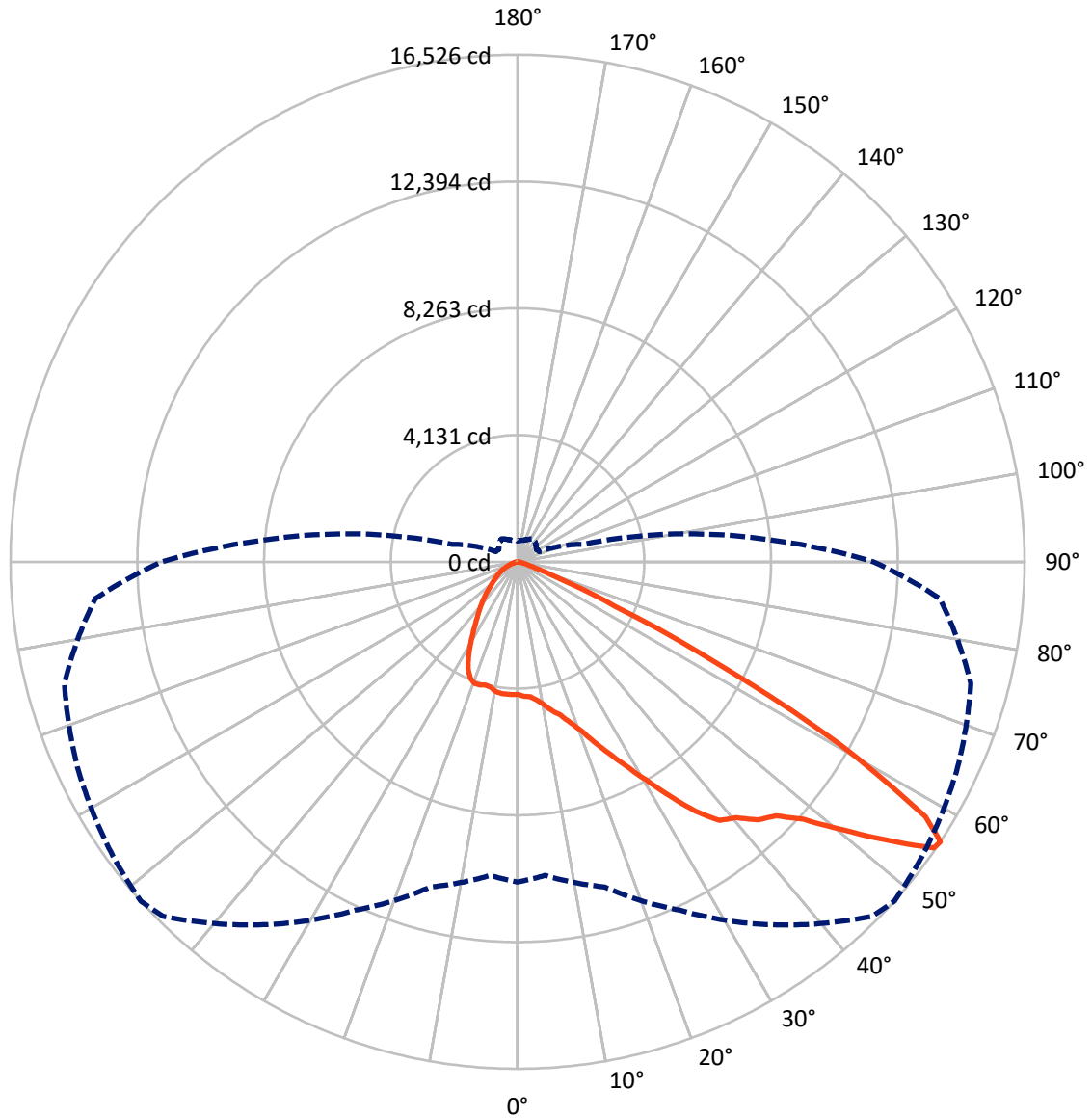
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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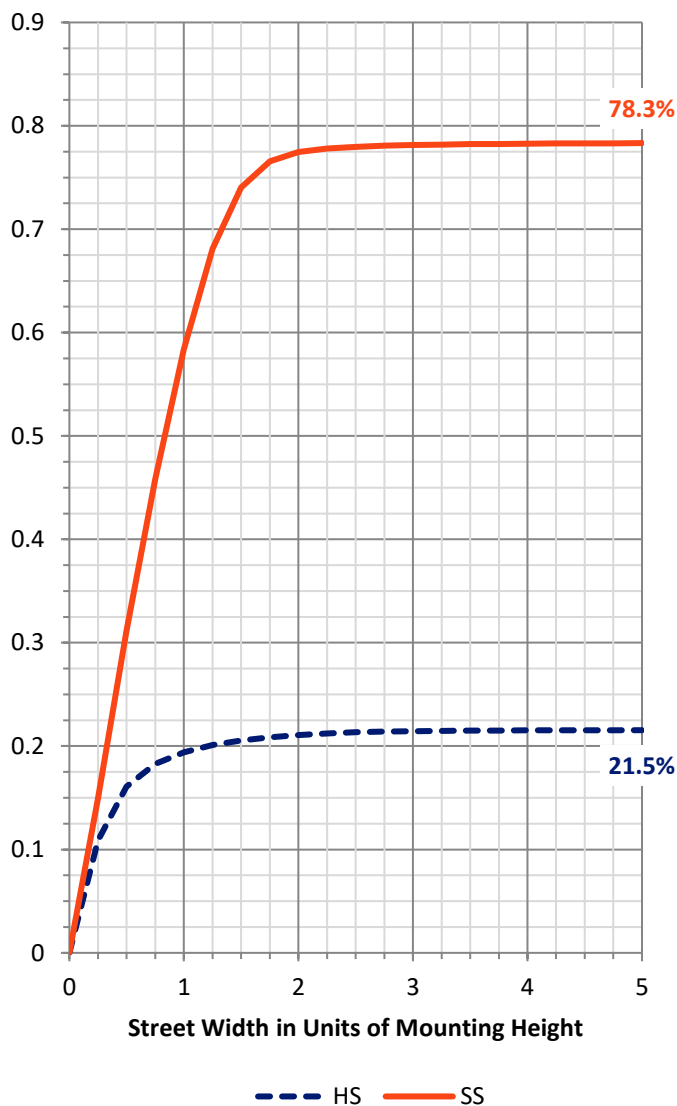
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4930.9	0.0	4930.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	17742.0	0.0	17742.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	22673.0	0.0	22673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.8	1.9
10°-20°	1348.1	5.9
20°-30°	2445.3	10.8
30°-40°	3841.0	16.9
40°-50°	5603.3	24.7
50°-60°	6750.9	29.8
60°-70°	1976.6	8.7
70°-80°	250.7	1.1
80°-90°	35.2	0.2
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°	22673.0	100.0
0°-180°	22673.0	100.0

Coefficient of Utilization

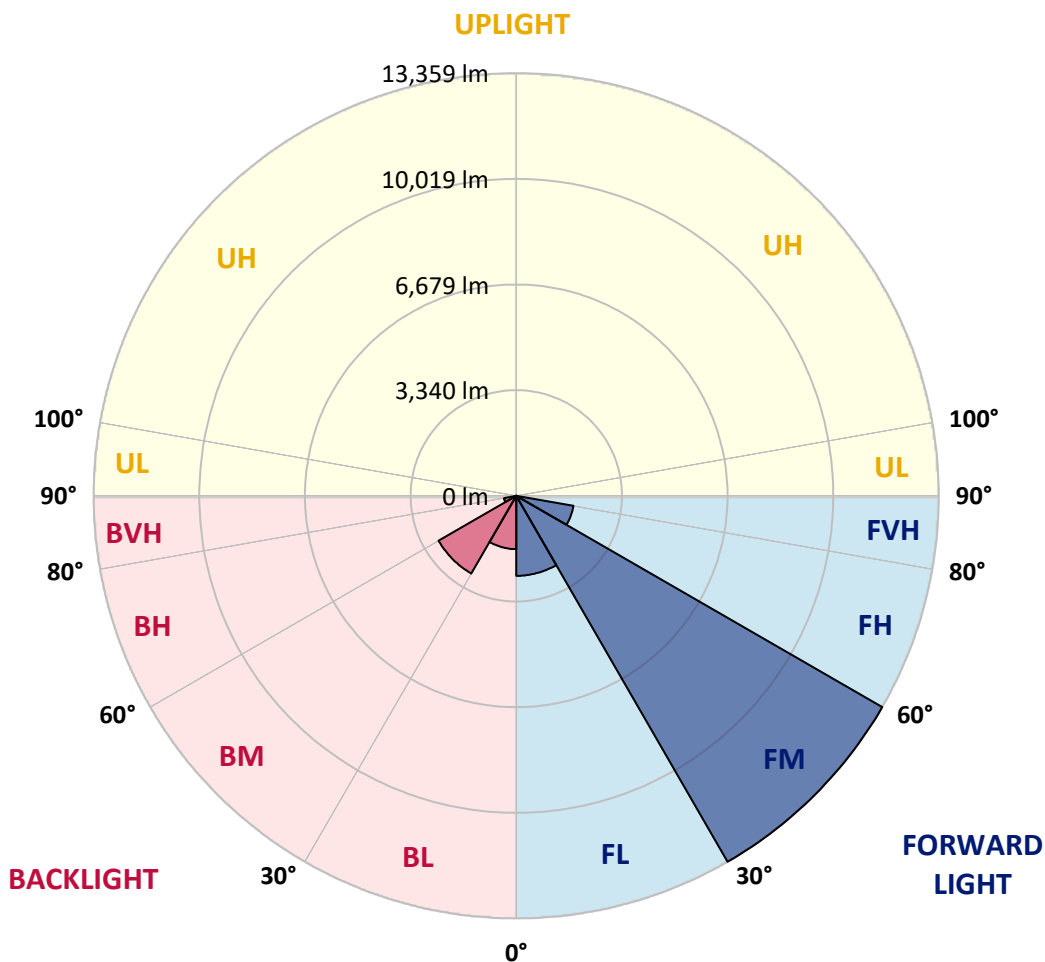


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2529.9	11.2			
FM (30°-60°)	13359.0	58.9			
FH (60°-80°)	1835.6	8.1			G2/5000
FVH (80°-90°)	17.7	0.1			G1/100
BL (0°-30°)	1685.4	7.4	B3/2500		
BM (30°-60°)	2836.3	12.5	B3/5000		
BH (60°-80°)	391.8	1.7	B1/500		G1/500
BVH (80°-90°)	17.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6
2.5°	4409.0	4388.3	4388.3	4355.3	4392.5	4376.0	4388.3	4347.1	4388.3	4326.4	4376.0
5°	4429.6	4433.8	4417.2	4437.9	4437.9	4462.7	4421.4	4458.5	4479.2	4433.8	4413.1
7.5°	4537.0	4545.2	4541.1	4524.6	4557.6	4553.5	4549.4	4520.5	4528.7	4512.2	4487.4
10°	4747.5	4743.4	4764.0	4722.7	4698.0	4726.9	4735.1	4689.7	4656.7	4644.3	4565.9
12.5°	5053.0	5003.5	4974.6	4933.3	4945.7	4904.4	4978.7	4900.3	4883.7	4809.4	4731.0
15°	5300.7	5292.4	5296.6	5230.5	5156.2	5172.7	5172.7	5131.4	5106.7	5015.8	4904.4
17.5°	5808.5	5635.1	5672.2	5589.7	5527.8	5523.6	5486.5	5494.7	5428.7	5238.8	5069.5
20°	6204.8	6130.5	6072.7	5932.3	5837.4	5866.3	5849.8	5808.5	5787.8	5540.1	5300.7
22.5°	6559.8	6584.6	6489.6	6452.5	6320.4	6332.8	6365.8	6328.6	6171.8	5915.8	5560.8
25°	7059.3	7030.4	6902.5	6857.1	6733.2	6778.6	6906.6	6877.7	6778.6	6316.2	5763.1
27.5°	7649.7	7550.6	7575.4	7369.0	7249.2	7377.2	7530.0	7674.4	7393.7	6786.9	6002.5
30°	8066.6	7963.4	7955.2	7946.9	7918.0	8066.6	8244.2	8376.3	8149.2	7257.5	6398.8
32.5°	8273.0	8297.8	8368.0	8343.2	8595.1	8900.5	9086.3	9276.2	8991.4	8025.4	6923.1
35°	8822.1	8665.2	8822.1	8838.6	9098.7	9746.8	9982.2	10436.3	10366.1	9111.1	7563.0
37.5°	9144.1	9131.7	9152.4	9309.2	9561.1	10362.0	10696.3	11047.2	10915.1	9763.4	8359.7
40°	9676.7	9709.7	9705.6	9825.3	10101.9	10824.3	10960.6	11245.4	11257.8	10667.4	9532.2
42.5°	10531.2	10399.1	10312.4	10436.3	10824.3	11224.8	11497.2	11439.4	11848.1	11765.6	11039.0
45°	11299.1	11377.5	11249.5	11455.9	11596.3	11811.0	11802.7	11926.6	12446.7	12838.9	12174.3
47.5°	12017.4	12066.9	12128.9	12269.2	12574.7	12607.7	12537.5	12483.9	13202.2	13606.8	13053.6
50°	12446.7	12492.1	12781.1	13032.9	13602.6	13677.0	13718.2	13582.0	14069.1	14114.5	13883.4
52.5°	12331.1	12380.7	12785.2	13615.0	14523.2	15204.4	15080.6	14849.4	14820.5	14998.0	14651.2
55°	11307.3	11261.9	11819.2	13111.4	14812.2	16447.0	16463.5	16220.0	15753.5	15633.7	14535.6
56°	10436.3	10258.7	10968.8	12529.3	14440.7	16339.7	16525.5	16265.4	15827.8	15291.1	13821.4
57.5°	8549.6	8718.9	9424.8	10717.0	13156.8	15567.7	15675.0	15613.1	15282.8	14382.9	12161.9
60°	4714.5	5011.7	5635.1	7216.2	9367.0	11947.2	12033.9	12537.5	12599.5	11014.2	8368.0
62.5°	2002.2	1969.2	2617.3	3781.5	5333.7	7212.1	7373.1	7889.1	7984.1	6349.3	4198.4
65°	813.3	858.7	1184.8	1903.1	2819.6	3286.1	3513.2	3682.4	3996.2	2621.4	1548.1
67.5°	536.7	532.5	697.7	1085.7	1519.2	1465.5	1465.5	1548.1	1432.5	1069.2	668.8
70°	383.9	396.3	499.5	751.3	945.4	701.8	672.9	644.0	730.7	705.9	540.8
72.5°	251.8	268.3	334.4	450.0	491.3	383.9	383.9	462.4	602.7	569.7	441.7
75°	165.1	169.3	206.4	260.1	243.6	198.2	218.8	309.6	437.6	421.1	313.7
77.5°	111.5	115.6	140.4	169.3	136.2	111.5	119.7	156.9	214.7	214.7	165.1
80°	41.3	45.4	57.8	53.7	61.9	78.4	86.7	107.3	128.0	128.0	111.5
82.5°	0.0	4.1	12.4	28.9	45.4	61.9	70.2	82.6	95.0	107.3	103.2
85°	0.0	4.1	12.4	20.6	33.0	37.2	41.3	28.9	24.8	24.8	20.6
87.5°	0.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	8.3	4.1	4.1
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°	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6
2.5°	4330.6	4326.4	4326.4	4314.0	4338.8	4326.4	4334.7	4330.6	4276.9	4318.2	4289.3
5°	4376.0	4404.9	4359.5	4351.2	4318.2	4330.6	4330.6	4289.3	4326.4	4322.3	4314.0
7.5°	4491.6	4442.0	4392.5	4342.9	4334.7	4322.3	4276.9	4260.4	4289.3	4256.2	4305.8
10°	4541.1	4549.4	4475.0	4409.0	4347.1	4260.4	4198.4	4161.3	4115.9	4165.4	4194.3
12.5°	4768.1	4685.6	4557.6	4454.4	4243.9	4157.2	4095.2	4078.7	4157.2	4173.7	4144.8
15°	4846.6	4834.2	4669.1	4437.9	4219.1	4115.9	4128.3	4095.2	4103.5	4062.2	4070.5
17.5°	5007.6	4867.2	4673.2	4384.2	4215.0	4190.2	4115.9	3983.8	3909.5	3876.4	3905.3
20°	5185.1	5048.9	4768.1	4404.9	4252.1	4186.1	3942.5	3781.5	3628.7	3546.2	3550.3
22.5°	5342.0	5172.7	4726.9	4413.1	4285.1	4012.7	3719.6	3401.7	3211.8	3083.8	3087.9
25°	5531.9	5292.4	4743.4	4429.6	4198.4	3736.1	3315.0	3005.4	2778.3	2691.6	2720.5
27.5°	5639.2	5366.7	4834.2	4466.8	3971.4	3343.9	2889.8	2600.8	2468.7	2427.4	2423.3
30°	5961.2	5531.9	4945.7	4392.5	3591.6	2922.8	2501.7	2324.2	2196.2	2159.1	2167.3
32.5°	6440.1	5833.2	5090.2	4198.4	3203.5	2547.1	2249.9	2117.8	1998.1	1927.9	1919.6
35°	6840.5	6349.3	5242.9	3897.1	2753.6	2258.2	2072.4	1907.3	1725.6	1647.2	1626.5
37.5°	7604.3	6931.4	5209.9	3443.0	2324.2	2043.5	1882.5	1680.2	1523.3	1416.0	1403.6
40°	8619.8	7612.5	5048.9	2889.8	2006.3	1853.6	1680.2	1486.2	1292.1	1201.3	1193.1
42.5°	9854.2	8446.4	4755.8	2328.3	1688.5	1663.7	1506.8	1283.9	1110.5	1044.5	1048.6
45°	10857.3	9160.6	4458.5	1870.1	1453.2	1477.9	1341.7	1131.1	1011.4	957.8	957.8
47.5°	11749.0	9643.6	4136.5	1544.0	1234.4	1292.1	1172.4	1048.6	945.4	904.1	895.8
50°	12607.7	10134.9	3814.5	1250.9	1052.7	1110.5	1098.1	999.0	916.5	866.9	871.1
52.5°	13144.4	10213.3	3405.8	1023.8	920.6	986.7	1027.9	937.1	846.3	817.4	809.1
55°	12488.0	9201.9	2642.1	842.2	780.2	866.9	945.4	842.2	772.0	722.4	718.3
56°	11604.6	8227.6	2208.6	776.1	739.0	833.9	916.5	805.0	726.6	697.7	677.0
57.5°	9825.3	6733.2	1630.7	689.4	685.3	776.1	871.1	767.9	677.0	652.3	652.3
60°	6126.3	3789.7	986.7	578.0	594.5	689.4	784.4	685.3	602.7	602.7	615.1
62.5°	2790.7	1577.0	598.6	491.3	511.9	594.5	697.7	619.2	573.8	619.2	627.5
65°	949.5	681.2	433.5	392.2	404.6	491.3	598.6	627.5	623.4	652.3	668.8
67.5°	532.5	437.6	363.3	326.1	317.9	363.3	491.3	627.5	602.7	590.3	598.6
70°	450.0	371.5	322.0	289.0	276.6	293.1	379.8	474.8	425.2	412.8	404.6
72.5°	363.3	309.6	280.7	260.1	222.9	189.9	173.4	181.6	202.3	214.7	235.3
75°	256.0	235.3	235.3	210.5	161.0	119.7	95.0	78.4	53.7	37.2	41.3
77.5°	144.5	144.5	148.6	128.0	103.2	78.4	57.8	41.3	20.6	8.3	4.1
80°	99.1	107.3	115.6	103.2	86.7	70.2	49.5	28.9	12.4	0.0	0.0
82.5°	99.1	111.5	119.7	103.2	86.7	66.1	49.5	28.9	12.4	4.1	0.0
85°	20.6	24.8	28.9	33.0	49.5	49.5	37.2	24.8	12.4	4.1	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0	0.0
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)