

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: P533573

Luminaire Tested: **GALN-SA9A-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533573
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-SA9A-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 22547 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

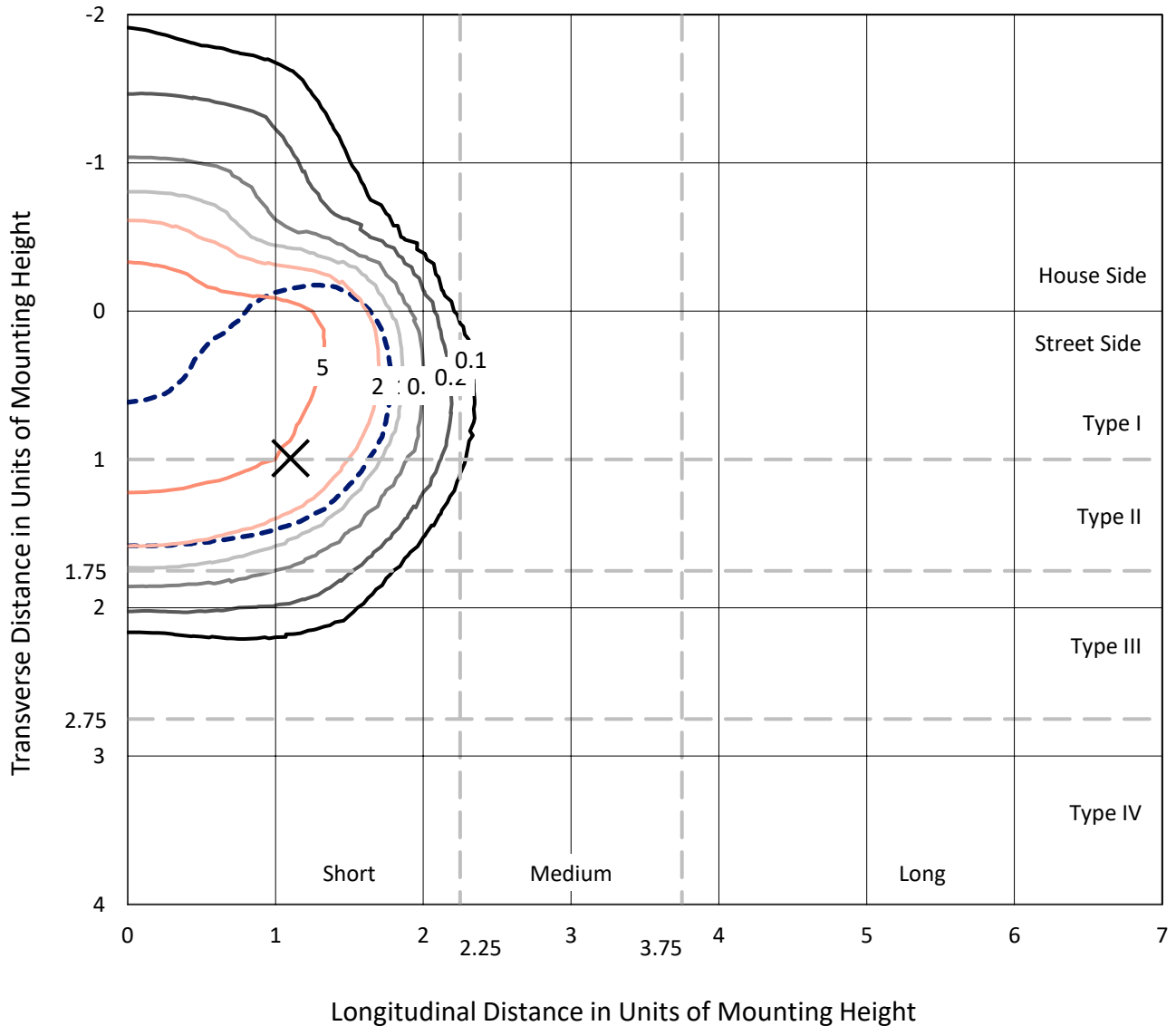
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

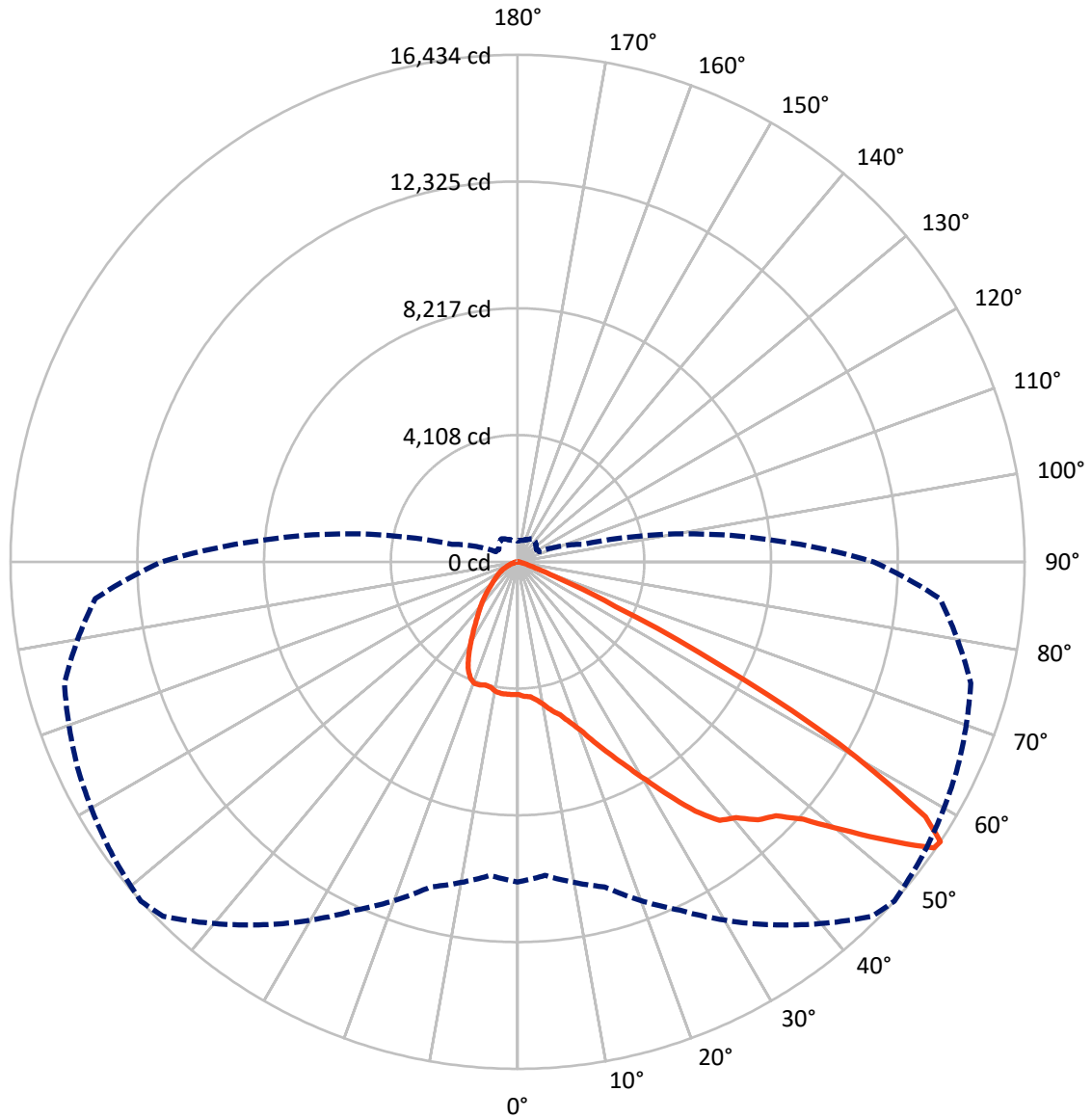
✕ Max cd
 - - - 1/2 Max cd



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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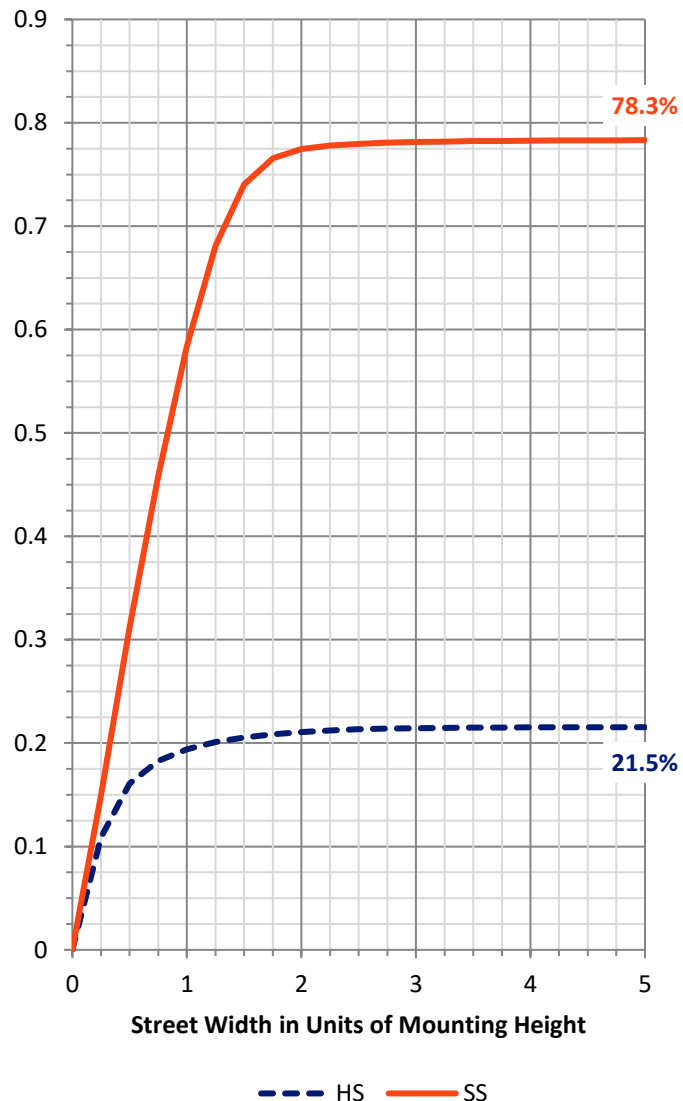
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4903.5	0.0	4903.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	17643.5	0.0	17643.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	22547.0	0.0	22547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.5	1.9
10°-20°	1340.6	5.9
20°-30°	2431.7	10.8
30°-40°	3819.7	16.9
40°-50°	5572.2	24.7
50°-60°	6713.4	29.8
60°-70°	1965.6	8.7
70°-80°	249.4	1.1
80°-90°	35.0	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°	22547.0	100.0
0°-180°	22547.0	100.0

Coefficient of Utilization

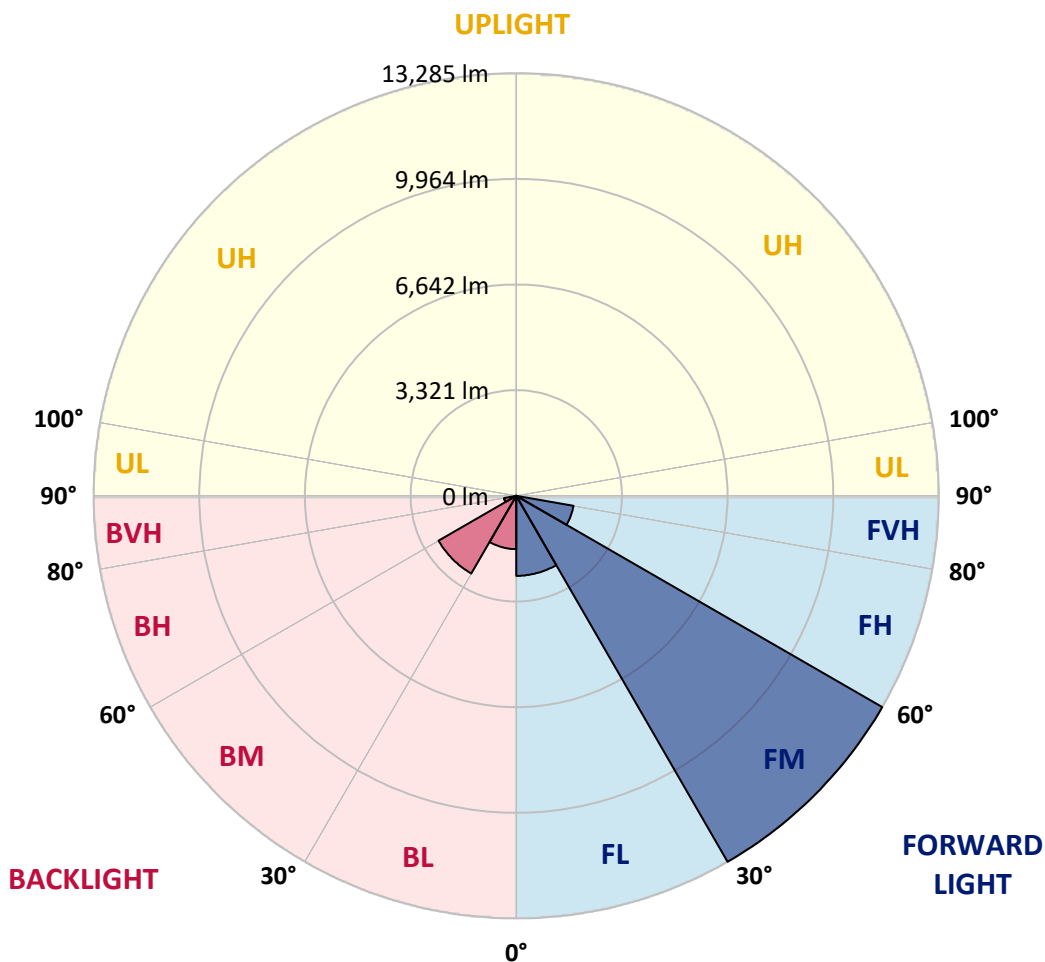


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2515.8	11.2			
FM (30°-60°)	13284.8	58.9			
FH (60°-80°)	1825.4	8.1			G2/5000
FVH (80°-90°)	17.6	0.1			G1/100
BL (0°-30°)	1676.0	7.4	B3/2500		
BM (30°-60°)	2820.5	12.5	B3/5000		
BH (60°-80°)	389.6	1.7	B1/500		G1/500
BVH (80°-90°)	17.4	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°	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5
2.5°	4384.5	4364.0	4364.0	4331.1	4368.1	4351.6	4364.0	4322.9	4364.0	4302.4	4351.6
5°	4405.0	4409.1	4392.7	4413.2	4413.2	4437.9	4396.8	4433.8	4454.3	4409.1	4388.6
7.5°	4511.8	4520.0	4515.9	4499.4	4532.3	4528.2	4524.1	4495.3	4503.5	4487.1	4462.5
10°	4721.1	4717.0	4737.5	4696.5	4671.9	4700.6	4708.8	4663.7	4630.8	4618.5	4540.5
12.5°	5024.9	4975.7	4946.9	4905.9	4918.2	4877.1	4951.0	4873.0	4856.6	4782.7	4704.7
15°	5271.2	5263.0	5267.1	5201.4	5127.6	5144.0	5144.0	5102.9	5078.3	4988.0	4877.1
17.5°	5776.2	5603.8	5640.7	5558.6	5497.0	5492.9	5456.0	5464.2	5398.5	5209.7	5041.3
20°	6170.3	6096.4	6038.9	5899.4	5804.9	5833.7	5817.2	5776.2	5755.7	5509.3	5271.2
22.5°	6523.4	6548.0	6453.6	6416.6	6285.3	6297.6	6330.4	6293.5	6137.5	5882.9	5529.9
25°	7020.1	6991.4	6864.1	6818.9	6695.8	6740.9	6868.2	6839.5	6740.9	6281.1	5731.0
27.5°	7607.2	7508.6	7533.3	7328.0	7209.0	7336.2	7488.1	7631.8	7352.6	6749.2	5969.1
30°	8021.8	7919.2	7911.0	7902.8	7874.0	8021.8	8198.3	8329.7	8103.9	7217.2	6363.3
32.5°	8227.1	8251.7	8321.5	8296.9	8547.3	8851.1	9035.8	9224.7	8941.4	7980.8	6884.6
35°	8773.1	8617.1	8773.1	8789.5	9048.1	9692.7	9926.7	10378.3	10308.5	9060.5	7521.0
37.5°	9093.3	9081.0	9101.5	9257.5	9507.9	10304.4	10636.9	10985.9	10854.5	9709.1	8313.3
40°	9622.9	9655.7	9651.6	9770.7	10045.7	10764.2	10899.6	11182.9	11195.2	10608.2	9479.2
42.5°	10472.7	10341.3	10255.1	10378.3	10764.2	11162.4	11433.3	11375.9	11782.3	11700.2	10977.6
45°	11236.3	11314.3	11187.0	11392.3	11531.9	11745.3	11737.1	11860.3	12377.6	12767.6	12106.6
47.5°	11950.6	11999.9	12061.4	12201.0	12504.8	12537.7	12467.9	12414.5	13128.8	13531.2	12981.0
50°	12377.6	12422.7	12710.1	12960.5	13527.0	13600.9	13642.0	13506.5	13991.0	14036.1	13806.2
52.5°	12262.6	12311.9	12714.2	13539.4	14442.5	15119.9	14996.8	14766.9	14738.1	14914.6	14569.8
55°	11244.5	11199.3	11753.5	13038.5	14729.9	16355.6	16372.0	16129.8	15665.9	15546.9	14454.9
56°	10378.3	10201.7	10907.9	12459.7	14360.4	16248.9	16433.6	16175.0	15739.8	15206.1	13744.6
57.5°	8502.1	8670.4	9372.5	10657.4	13083.7	15481.2	15587.9	15526.3	15197.9	14303.0	12094.3
60°	4688.3	4983.9	5603.8	7176.1	9315.0	11880.8	11967.0	12467.9	12529.5	10953.0	8321.5
62.5°	1991.1	1958.2	2602.8	3760.5	5304.1	7172.0	7332.1	7845.3	7939.7	6314.0	4175.1
65°	808.7	853.9	1178.2	1892.6	2803.9	3267.8	3493.6	3662.0	3974.0	2606.9	1539.5
67.5°	533.7	529.6	693.8	1079.7	1510.8	1457.4	1457.4	1539.5	1424.5	1063.3	665.1
70°	381.8	394.1	496.7	747.2	940.1	697.9	669.2	640.4	726.6	702.0	537.8
72.5°	250.4	266.8	332.5	447.5	488.5	381.8	381.8	459.8	599.4	566.5	439.3
75°	164.2	168.3	205.3	258.6	242.2	197.1	217.6	307.9	435.2	418.7	312.0
77.5°	110.8	114.9	139.6	168.3	135.5	110.8	119.1	156.0	213.5	213.5	164.2
80°	41.1	45.2	57.5	53.4	61.6	78.0	86.2	106.7	127.3	127.3	110.8
82.5°	0.0	4.1	12.3	28.7	45.2	61.6	69.8	82.1	94.4	106.7	102.6
85°	0.0	4.1	12.3	20.5	32.8	36.9	41.1	28.7	24.6	24.6	20.5
87.5°	0.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	8.2	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°	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5
2.5°	4306.5	4302.4	4302.4	4290.1	4314.7	4302.4	4310.6	4306.5	4253.1	4294.2	4265.4
5°	4351.6	4380.4	4335.2	4327.0	4294.2	4306.5	4306.5	4265.4	4302.4	4298.3	4290.1
7.5°	4466.6	4417.3	4368.1	4318.8	4310.6	4298.3	4253.1	4236.7	4265.4	4232.6	4281.9
10°	4515.9	4524.1	4450.2	4384.5	4322.9	4236.7	4175.1	4138.2	4093.0	4142.3	4171.0
12.5°	4741.7	4659.5	4532.3	4429.6	4220.3	4134.1	4072.5	4056.1	4134.1	4150.5	4121.7
15°	4819.7	4807.3	4643.1	4413.2	4195.6	4093.0	4105.3	4072.5	4080.7	4039.6	4047.9
17.5°	4979.8	4840.2	4647.2	4359.9	4191.5	4166.9	4093.0	3961.6	3887.7	3854.9	3883.6
20°	5156.3	5020.8	4741.7	4380.4	4228.5	4162.8	3920.6	3760.5	3608.6	3526.5	3530.6
22.5°	5312.3	5144.0	4700.6	4388.6	4261.3	3990.4	3698.9	3382.8	3193.9	3066.7	3070.8
25°	5501.1	5263.0	4717.0	4405.0	4175.1	3715.3	3296.6	2988.7	2762.9	2676.7	2705.4
27.5°	5607.9	5336.9	4807.3	4442.0	3949.3	3325.3	2873.7	2586.4	2455.0	2413.9	2409.8
30°	5928.1	5501.1	4918.2	4368.1	3571.6	2906.6	2487.8	2311.3	2184.0	2147.1	2155.3
32.5°	6404.3	5800.8	5061.9	4175.1	3185.7	2533.0	2237.4	2106.0	1987.0	1917.2	1909.0
35°	6802.5	6314.0	5213.8	3875.4	2738.3	2245.6	2060.9	1896.7	1716.0	1638.0	1617.5
37.5°	7562.0	6892.8	5180.9	3423.8	2311.3	2032.1	1872.0	1670.9	1514.9	1408.1	1395.8
40°	8571.9	7570.2	5020.8	2873.7	1995.2	1843.3	1670.9	1477.9	1285.0	1194.6	1186.4
42.5°	9799.4	8399.5	4729.3	2315.4	1679.1	1654.4	1498.4	1276.8	1104.3	1038.6	1042.8
45°	10797.0	9109.7	4433.8	1859.7	1445.1	1469.7	1334.2	1124.9	1005.8	952.4	952.4
47.5°	11683.8	9590.0	4113.5	1535.4	1227.5	1285.0	1165.9	1042.8	940.1	899.1	890.9
50°	12537.7	10078.6	3793.3	1243.9	1046.9	1104.3	1092.0	993.5	911.4	862.1	866.2
52.5°	13071.4	10156.6	3386.9	1018.1	915.5	981.2	1022.2	931.9	841.6	812.9	804.6
55°	12418.6	9150.8	2627.4	837.5	775.9	862.1	940.1	837.5	767.7	718.4	714.3
56°	11540.1	8181.9	2196.3	771.8	734.9	829.3	911.4	800.5	722.5	693.8	673.3
57.5°	9770.7	6695.8	1621.6	685.6	681.5	771.8	866.2	763.6	673.3	648.6	648.6
60°	6092.3	3768.7	981.2	574.7	591.2	685.6	780.0	681.5	599.4	599.4	611.7
62.5°	2775.2	1568.2	595.3	488.5	509.1	591.2	693.8	615.8	570.6	615.8	624.0
65°	944.2	677.4	431.1	390.0	402.3	488.5	595.3	624.0	619.9	648.6	665.1
67.5°	529.6	435.2	361.3	324.3	316.1	361.3	488.5	624.0	599.4	587.1	595.3
70°	447.5	369.5	320.2	287.4	275.1	291.5	377.7	472.1	422.8	410.5	402.3
72.5°	361.3	307.9	279.2	258.6	221.7	188.8	172.4	180.6	201.2	213.5	234.0
75°	254.5	234.0	234.0	209.4	160.1	119.1	94.4	78.0	53.4	36.9	41.1
77.5°	143.7	143.7	147.8	127.3	102.6	78.0	57.5	41.1	20.5	8.2	4.1
80°	98.5	106.7	114.9	102.6	86.2	69.8	49.3	28.7	12.3	0.0	0.0
82.5°	98.5	110.8	119.1	102.6	86.2	65.7	49.3	28.7	12.3	4.1	0.0
85°	20.5	24.6	28.7	32.8	49.3	49.3	36.9	24.6	12.3	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)