

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: P529349

Luminaire Tested: **GALN-SA4C-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14784 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

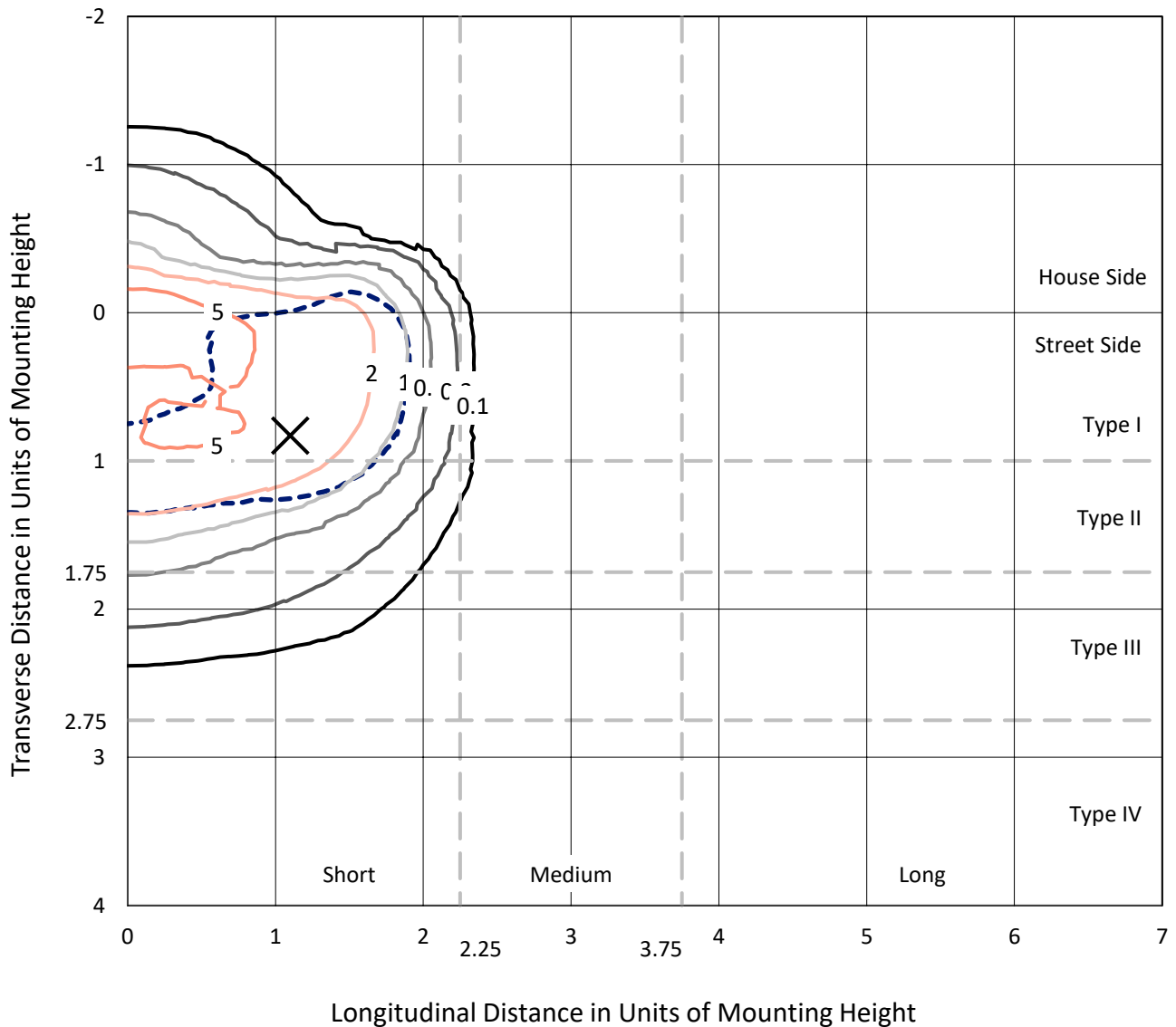
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

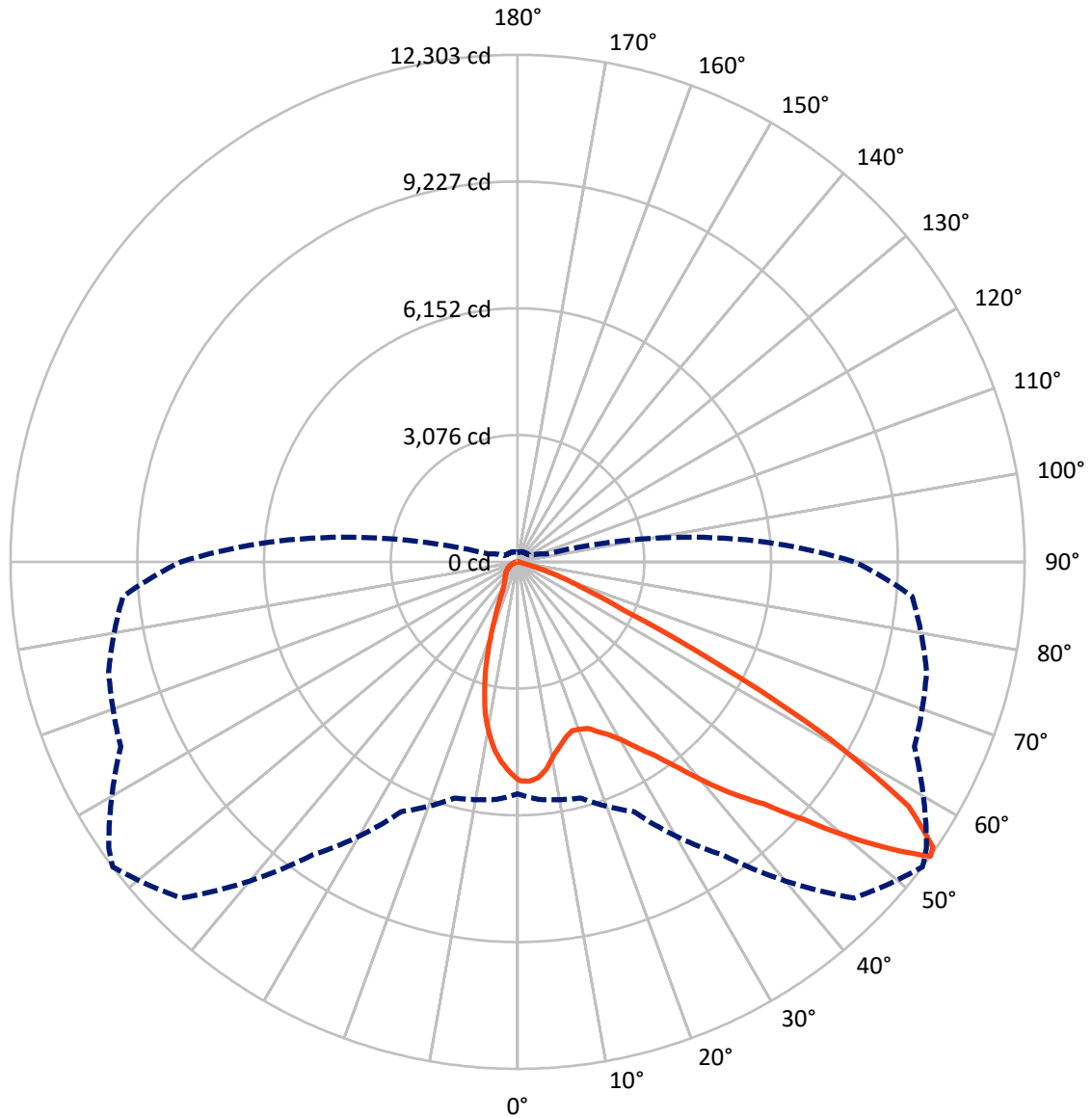
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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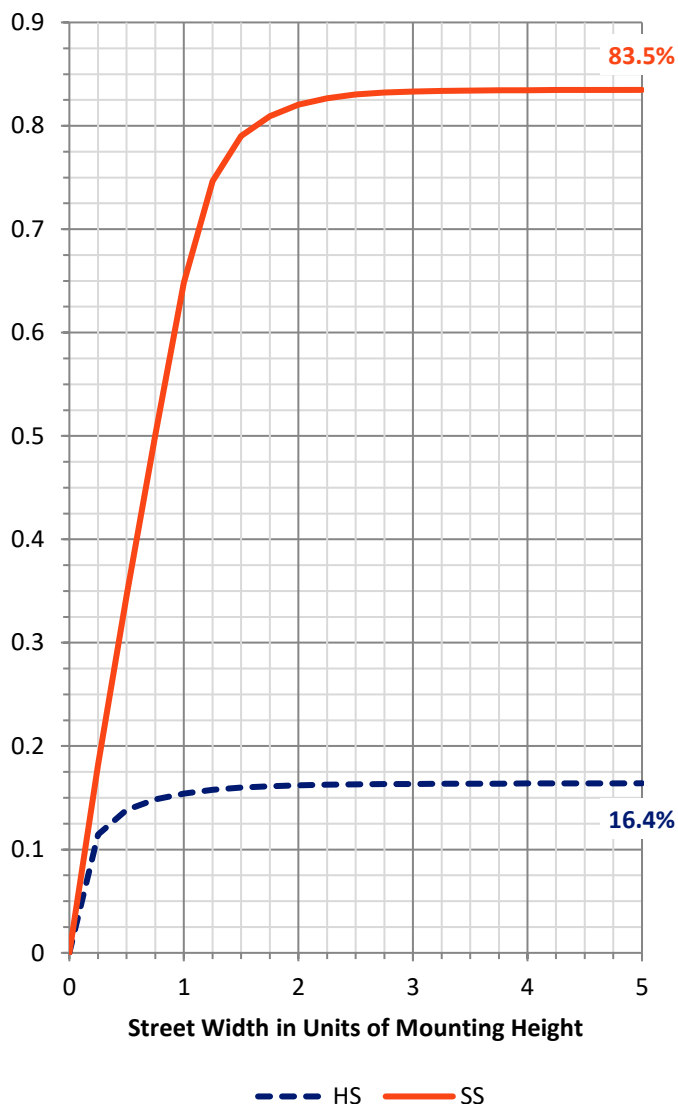
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2446.1	0.0	2446.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12337.9	0.0	12337.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	14784.0	0.0	14784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.6	3.1
10°-20°	1044.5	7.1
20°-30°	1484.5	10.0
30°-40°	2291.0	15.5
40°-50°	3592.1	24.3
50°-60°	4172.7	28.2
60°-70°	1576.7	10.7
70°-80°	149.9	1.0
80°-90°	16.9	0.1
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°	14784.0	100.0
0°-180°	14784.0	100.0

Coefficient of Utilization

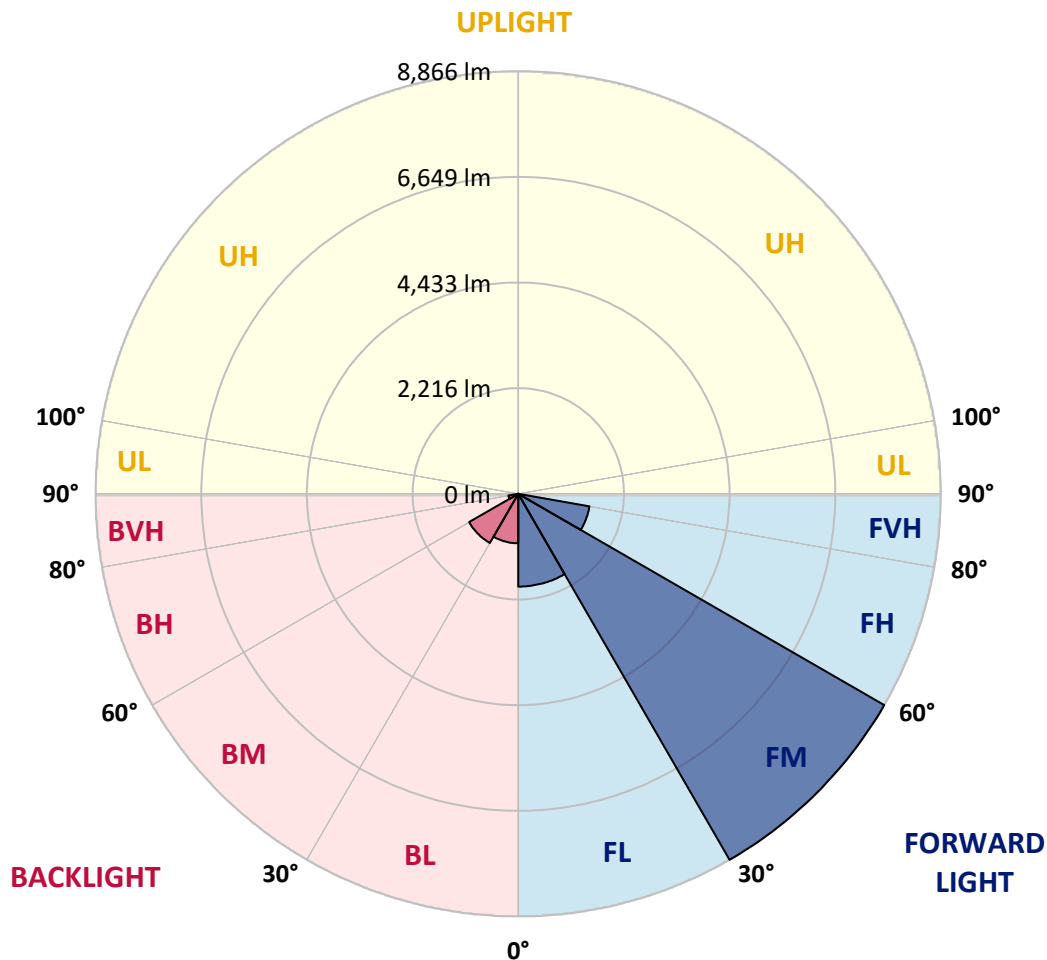


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1946.7	13.2			
FM (30°-60°)	8865.5	60.0			
FH (60°-80°)	1517.1	10.3			G1/1800
FVH (80°-90°)	8.7	0.1			G0/10
BL (0°-30°)	1038.0	7.0	B3/2500		
BM (30°-60°)	1190.3	8.1	B2/2500		
BH (60°-80°)	209.6	1.4	B1/500		G1/500
BVH (80°-90°)	8.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5310.2	5310.2	5310.2	5310.2	5310.2	5310.2	5310.2	5310.2	5310.2	5310.2	5310.2
2.5°	5282.6	5235.8	5282.6	5288.1	5321.2	5351.5	5332.2	5376.3	5351.5	5323.9	5315.7
5°	4855.7	4919.1	4921.8	5021.0	4998.9	5180.7	5260.6	5238.6	5373.5	5365.2	5346.0
7.5°	4472.9	4448.1	4481.1	4596.8	4742.8	4952.1	5067.8	5065.0	5257.8	5395.5	5381.8
10°	4117.6	4114.8	4183.7	4274.6	4398.5	4618.9	4778.6	4858.5	5158.7	5368.0	5398.3
12.5°	3878.0	3866.9	3941.3	4015.7	4211.2	4382.0	4585.8	4624.4	4968.6	5271.6	5321.2
15°	3721.0	3745.8	3751.3	3894.5	4018.4	4244.3	4404.0	4483.9	4880.5	5194.5	5384.5
17.5°	3693.4	3726.5	3729.2	3847.7	3979.9	4169.9	4310.4	4417.8	4806.1	5233.0	5387.3
20°	3748.5	3729.2	3745.8	3820.1	3949.6	4131.4	4335.2	4371.0	4781.4	5252.3	5417.6
22.5°	3905.5	3900.0	3858.7	3919.3	4010.2	4200.2	4393.0	4448.1	4853.0	5351.5	5442.4
25°	4079.0	4109.3	4070.8	4062.5	4125.8	4313.1	4569.3	4640.9	5092.6	5530.5	5519.5
27.5°	4404.0	4373.7	4373.7	4335.2	4318.6	4409.5	4759.3	4877.7	5359.7	5761.9	5607.6
30°	4715.2	4748.3	4723.5	4737.3	4627.1	4618.9	5029.2	5175.2	5833.5	6114.4	5794.9
32.5°	5208.3	5164.2	5205.5	5169.7	5023.7	4875.0	5395.5	5547.0	6406.3	6519.3	6075.8
35°	5618.6	5599.4	5775.6	5770.1	5533.3	5387.3	5783.9	6009.7	6805.7	7004.0	6406.3
37.5°	6202.5	6166.7	6367.8	6464.2	6252.1	6034.5	6340.2	6601.9	7177.5	7392.4	6745.1
40°	6803.0	6893.8	7163.8	7323.5	7097.7	6808.5	7020.5	7100.4	7425.4	7645.8	6976.5
42.5°	7563.1	7695.3	7970.8	8108.5	8089.2	7775.2	7711.9	7709.1	7604.4	7574.1	7147.2
45°	8293.0	8243.4	8667.6	8967.8	9210.2	9119.3	8378.4	8295.8	7888.1	7681.6	7191.3
47.5°	8612.5	8596.0	8885.2	9419.5	10245.8	10358.7	9347.9	9028.4	8367.4	8133.3	7430.9
50°	8199.4	8284.7	8571.2	9163.3	10430.3	11292.4	10537.7	10108.0	8926.5	8684.1	7998.3
52.5°	6849.8	6907.6	7180.3	7932.2	9802.3	11843.2	11678.0	11430.1	9953.8	9551.7	8987.1
54°	5632.4	5786.6	5935.4	6690.0	8684.1	11537.5	12303.2	12113.1	10623.1	10273.3	9609.5
55°	4905.3	4996.2	5103.6	5855.5	7910.2	11019.7	12231.6	12248.1	11072.0	10499.1	10028.2
57.5°	3583.3	3646.6	3536.4	3869.7	5431.3	8948.5	11187.7	11633.9	11678.0	10837.9	10284.3
60°	2737.7	2765.3	2641.3	2693.6	3376.7	6141.9	8653.8	9190.9	10534.9	9471.8	8711.6
62.5°	2123.5	2129.0	2126.3	2217.2	2327.3	3613.6	5412.1	5888.6	7262.9	6725.8	5916.1
65°	1564.4	1539.6	1583.7	1859.1	1985.8	2272.2	2850.6	3197.7	3946.8	3332.6	2382.4
67.5°	1013.6	1021.8	1065.9	1382.6	1702.1	1743.4	1754.4	1726.9	1729.7	953.0	597.7
70°	608.7	622.5	608.7	782.2	1217.4	1250.4	1143.0	1115.5	870.3	225.8	223.1
72.5°	360.8	341.5	305.7	336.0	506.8	605.9	545.3	542.6	341.5	132.2	132.2
75°	151.5	137.7	112.9	101.9	135.0	129.4	129.4	115.7	90.9	88.1	82.6
77.5°	30.3	30.3	22.0	24.8	33.1	38.6	46.8	46.8	55.1	55.1	52.3
80°	0.0	2.8	8.3	16.5	24.8	35.8	41.3	41.3	46.8	46.8	38.6
82.5°	0.0	2.8	8.3	16.5	22.0	33.1	41.3	41.3	46.8	49.6	41.3
85°	0.0	2.8	8.3	13.8	22.0	27.5	27.5	24.8	19.3	16.5	11.0
87.5°	0.0	0.0	2.8	5.5	2.8	5.5	5.5	5.5	5.5	5.5	5.5
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°	5310.2	5310.2	5310.2	5310.2	5310.2	5310.2	5310.2	5310.2	5310.2	5310.2	5310.2
2.5°	5335.0	5332.2	5266.1	5158.7	5133.9	5043.0	5032.0	4976.9	5007.2	4905.3	4894.3
5°	5290.9	5257.8	5178.0	5109.1	4908.0	4764.8	4651.9	4514.2	4434.3	4448.1	4395.8
7.5°	5354.2	5268.9	5128.4	4888.8	4643.6	4393.0	4258.0	3977.1	3875.2	3723.7	3701.7
10°	5288.1	5224.8	5007.2	4610.6	4271.8	3911.0	3594.3	3283.0	3046.2	2944.3	2922.2
12.5°	5282.6	5172.5	4808.9	4368.2	3878.0	3360.2	2900.2	2511.9	2277.8	2145.5	2115.3
15°	5197.2	5065.0	4585.8	3993.6	3316.1	2671.6	2170.3	1795.8	1616.7	1539.6	1561.7
17.5°	5205.5	5007.2	4362.7	3597.0	2762.5	1961.0	1481.8	1289.0	1242.2	1261.4	1261.4
20°	5197.2	4877.7	4092.8	3139.8	2115.3	1360.6	1087.9	1019.1	1049.4	1110.0	1096.2
22.5°	5153.2	4817.2	3844.9	2657.8	1556.1	1008.0	873.1	875.8	922.7	997.0	1013.6
25°	5186.2	4682.2	3530.9	2170.3	1134.7	804.2	757.4	776.7	826.3	881.4	892.4
27.5°	5161.4	4585.8	3203.2	1685.6	829.0	691.3	688.6	710.6	732.6	773.9	773.9
30°	5189.0	4497.7	2880.9	1253.2	683.1	633.5	622.5	639.0	661.0	669.3	666.5
32.5°	5290.9	4431.6	2509.1	936.4	603.2	578.4	578.4	578.4	575.6	586.7	589.4
35°	5514.0	4442.6	2181.4	724.4	550.8	531.6	523.3	512.3	506.8	512.3	515.0
37.5°	5756.3	4437.1	1842.6	616.9	512.3	495.8	476.5	460.0	457.2	462.7	454.4
40°	5863.8	4489.4	1528.6	553.6	476.5	457.2	426.9	413.1	415.9	421.4	415.9
42.5°	6009.7	4505.9	1324.8	504.0	443.4	413.1	393.9	377.3	374.6	382.8	380.1
45°	6007.0	4412.3	1110.0	476.5	413.1	380.1	355.3	341.5	341.5	347.0	349.8
47.5°	6183.3	4398.5	953.0	451.7	391.1	358.1	327.8	316.7	314.0	314.0	308.5
50°	6593.6	4591.3	831.8	424.2	363.6	333.3	308.5	294.7	283.7	278.2	275.4
52.5°	7395.1	5191.7	738.1	391.1	333.3	308.5	286.4	275.4	261.7	247.9	245.1
54°	8171.8	5811.4	732.6	363.6	308.5	291.9	272.7	267.2	250.6	231.4	225.8
55°	8521.6	6172.2	751.9	341.5	291.9	280.9	264.4	258.9	242.4	220.3	217.6
57.5°	8810.8	6312.7	740.9	283.7	264.4	261.7	247.9	239.6	220.3	190.0	184.5
60°	7092.2	4773.1	531.6	250.6	242.4	236.9	225.8	220.3	195.6	162.5	159.7
62.5°	4481.1	2746.0	338.8	220.3	212.1	203.8	190.0	184.5	162.5	129.4	121.2
65°	1908.7	1137.5	228.6	195.6	181.8	168.0	157.0	148.7	129.4	96.4	93.6
67.5°	495.8	404.9	190.0	170.8	151.5	132.2	123.9	110.2	88.1	66.1	63.3
70°	223.1	203.8	159.7	143.2	121.2	101.9	90.9	77.1	57.8	44.1	41.3
72.5°	132.2	129.4	121.2	107.4	90.9	77.1	66.1	52.3	38.6	24.8	24.8
75°	82.6	79.9	82.6	74.4	63.3	57.8	49.6	35.8	22.0	11.0	11.0
77.5°	49.6	49.6	49.6	46.8	44.1	44.1	35.8	22.0	11.0	2.8	2.8
80°	38.6	38.6	41.3	38.6	38.6	38.6	30.3	16.5	5.5	0.0	0.0
82.5°	38.6	41.3	46.8	44.1	38.6	33.1	27.5	16.5	5.5	0.0	0.0
85°	11.0	8.3	13.8	19.3	27.5	24.8	19.3	13.8	5.5	0.0	0.0
87.5°	5.5	5.5	5.5	5.5	2.8	2.8	2.8	2.8	2.8	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)