

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: P652133

Luminaire Tested: **GALN-SA9A-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27914.5 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

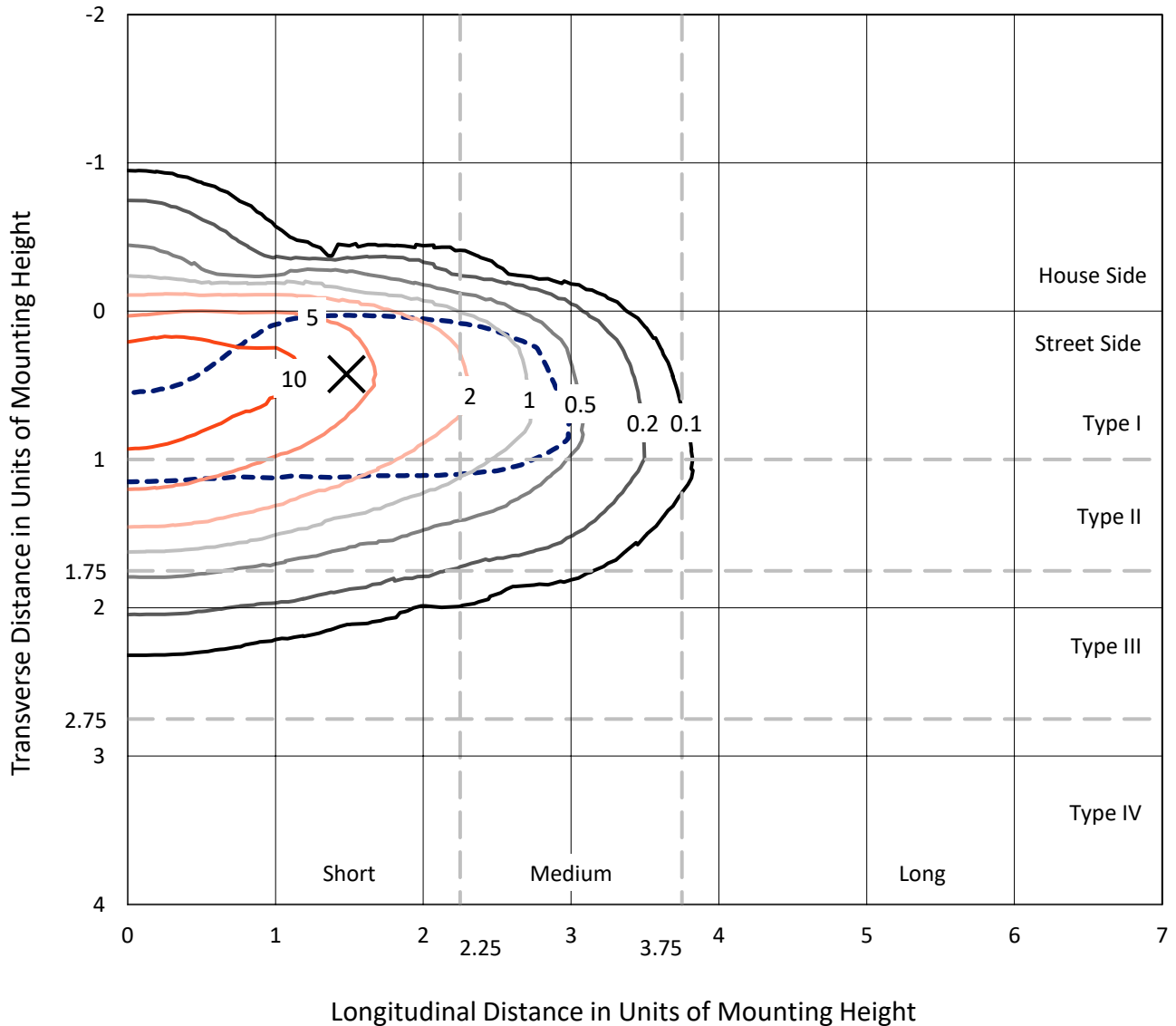
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

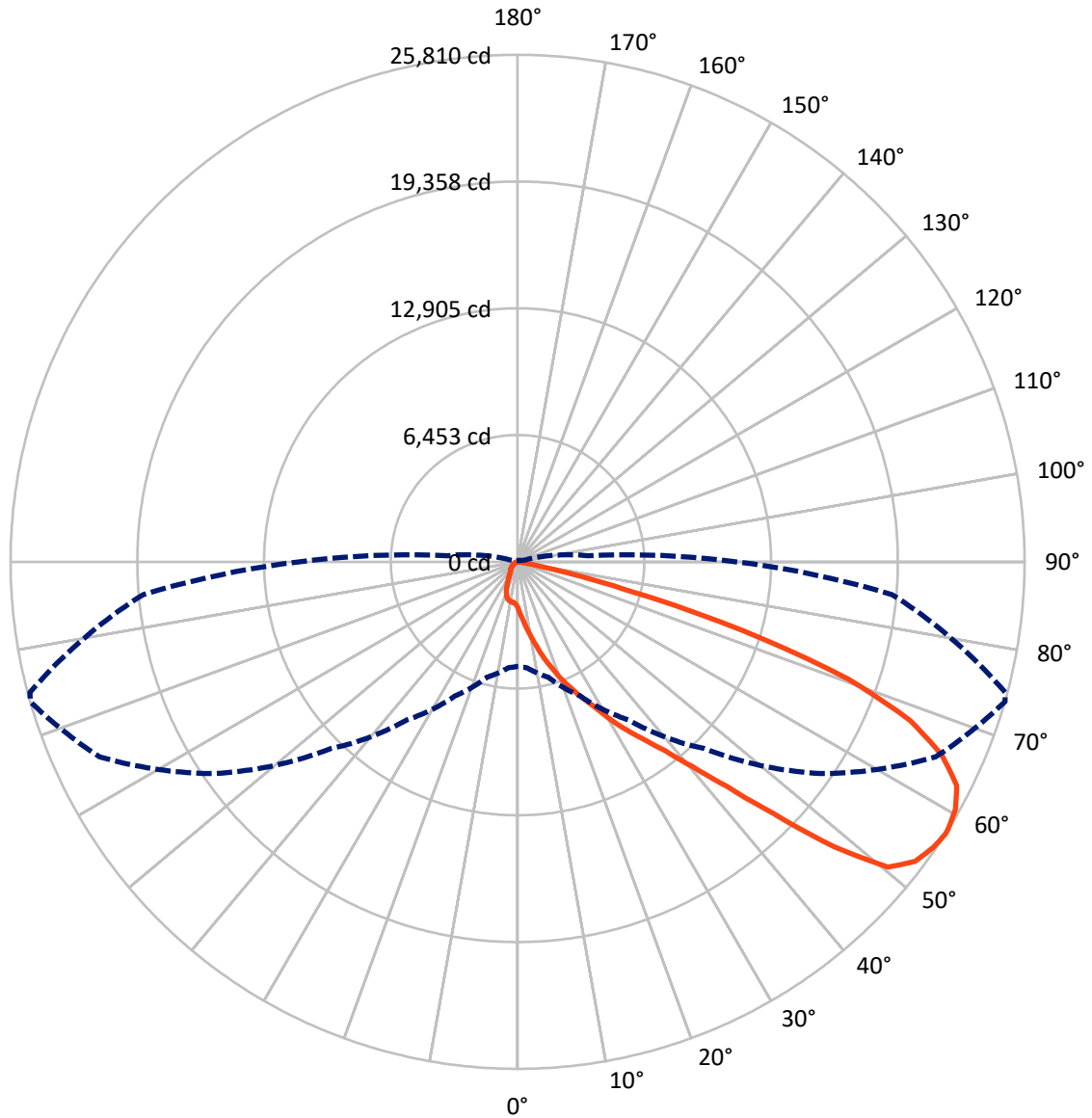
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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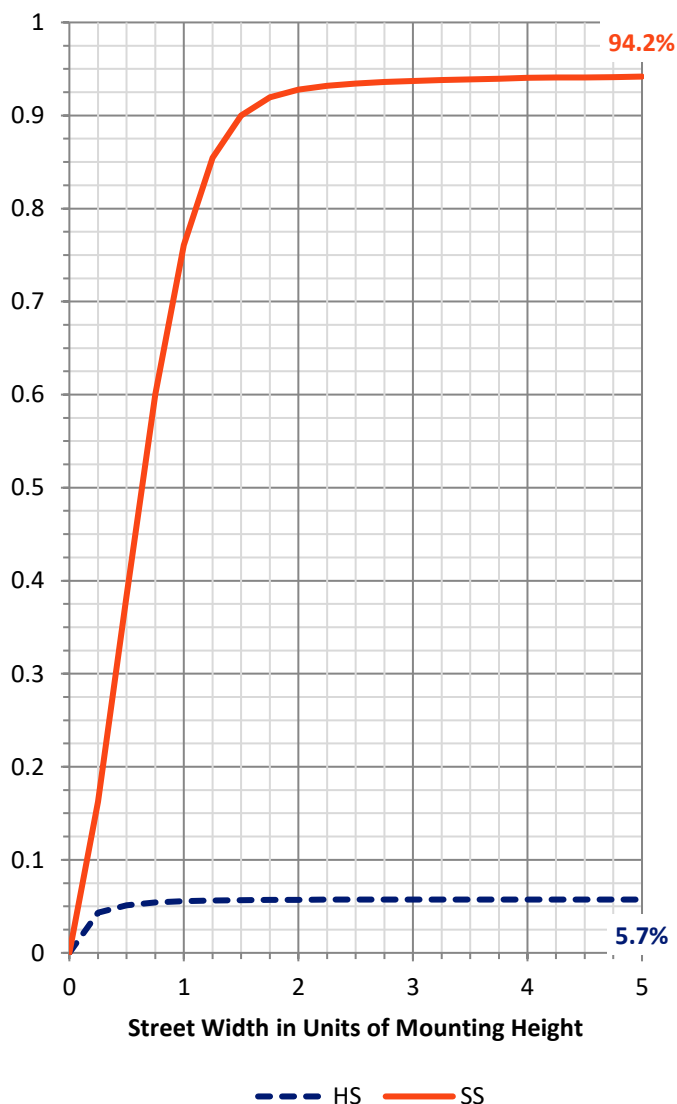
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1610.0	0.0	1610.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	26304.5	0.0	26304.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	27914.5	0.0	27914.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	1.0
10°-20°	1112.2	4.0
20°-30°	2379.9	8.5
30°-40°	4374.2	15.7
40°-50°	6705.8	24.0
50°-60°	7093.8	25.4
60°-70°	4632.4	16.6
70°-80°	1265.8	4.5
80°-90°	68.1	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°	27914.5	100.0
0°-180°	27914.5	100.0

Coefficient of Utilization



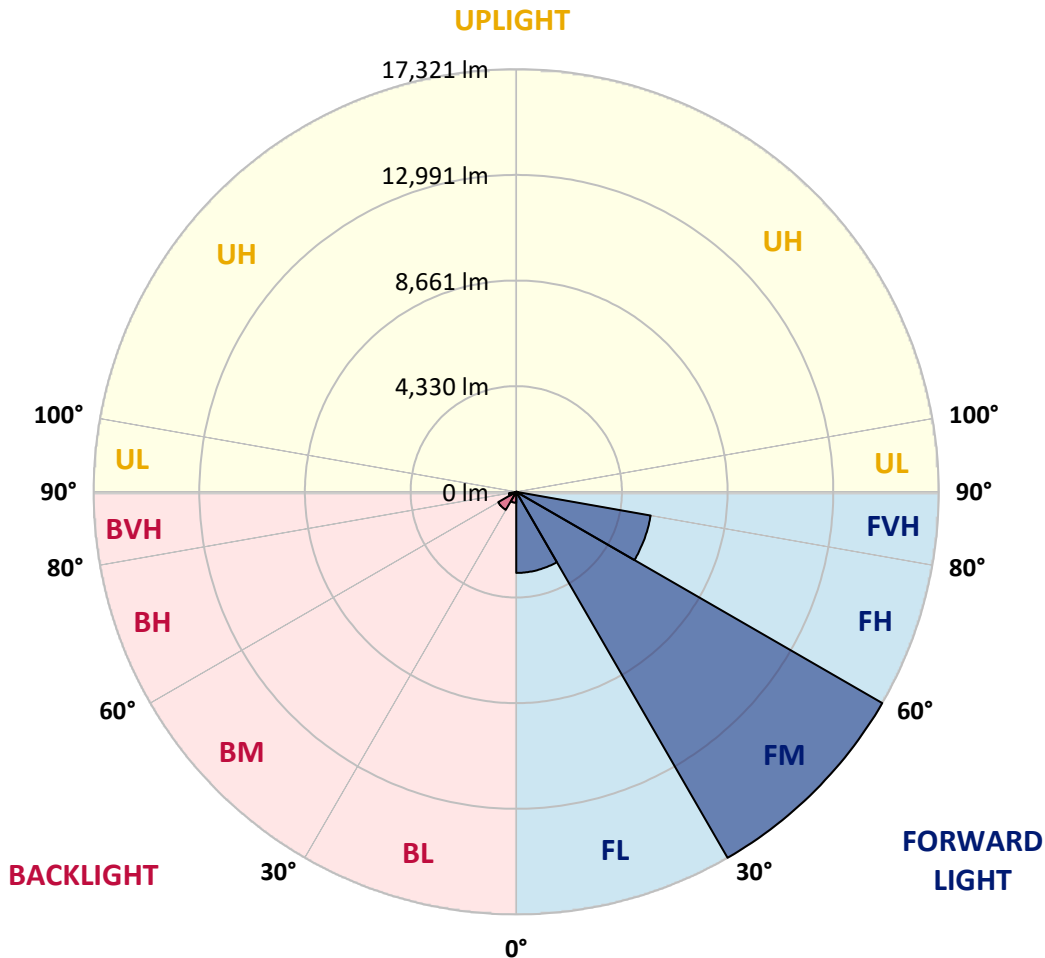
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3324.6	11.9			
FM (30°-60°)	17321.4	62.1			
FH (60°-80°)	5595.9	20.0			G3/7500
FVH (80°-90°)	62.5	0.2			G1/100
BL (0°-30°)	449.7	1.6	B1/500		
BM (30°-60°)	852.4	3.1	B1/1000		
BH (60°-80°)	302.3	1.1	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8
2.5°	3420.9	3390.1	3328.4	3307.2	3216.7	3076.0	2952.6	2786.8	2655.8	2642.3	2484.3
5°	4581.2	4511.8	4482.9	4344.1	4126.3	3922.0	3571.3	3305.3	2998.8	2975.7	2657.7
7.5°	5699.0	5602.7	5573.7	5442.7	5188.3	4866.4	4411.5	3927.8	3442.1	3397.8	2890.9
10°	6508.4	6522.0	6469.9	6383.2	6177.0	5849.3	5288.5	4627.4	3935.5	3879.6	3153.1
12.5°	7088.5	7086.6	7096.3	7094.3	6984.5	6735.9	6146.1	5384.8	4479.0	4369.2	3453.7
15°	7466.3	7472.1	7501.0	7601.2	7612.8	7458.6	6967.2	6109.5	5109.2	4972.4	3779.5
17.5°	7848.0	7888.4	7934.7	8029.1	8113.9	8052.2	7705.3	6865.0	5679.7	5577.6	4128.2
20°	8478.1	8534.0	8507.1	8564.8	8609.2	8615.0	8347.1	7562.7	6371.6	6200.1	4527.2
22.5°	9486.1	9484.2	9414.8	9310.7	9224.0	9220.1	8977.3	8279.6	6999.9	6834.1	4928.1
25°	10760.1	10765.8	10630.9	10334.1	10118.2	9854.2	9574.8	8908.0	7672.5	7468.2	5350.2
27.5°	12220.9	12184.3	11980.0	11571.4	11143.6	10692.6	10289.8	9638.4	8385.6	8216.1	5833.9
30°	13533.5	13519.9	13280.9	12781.8	12219.0	11766.1	11182.1	10553.8	9308.8	9100.6	6375.5
32.5°	14755.3	14774.6	14443.1	13926.6	13383.1	12860.8	12244.0	11428.9	10214.6	9919.8	6965.2
35°	15709.3	15728.6	15385.5	14955.8	14396.8	13963.2	13375.3	12361.6	11108.9	10860.3	7643.6
37.5°	16218.1	16243.2	16044.7	15720.9	15372.1	15154.2	14606.9	13562.3	12195.8	12045.6	8445.4
40°	16314.5	16343.4	16256.7	16169.9	16150.6	16306.8	16146.8	14976.9	13703.0	13467.9	9640.3
42.5°	16025.4	16063.9	16102.5	16295.2	16688.4	17260.8	17817.8	16896.5	15643.8	15327.7	11101.2
45°	15266.1	15262.2	15414.4	15913.7	16794.3	18016.3	19563.9	19299.9	18288.0	17912.2	13165.3
47.5°	13967.1	13947.8	14277.3	14988.6	16360.7	18155.1	20988.2	22217.8	21662.7	21315.8	15383.7
50°	11987.7	12082.1	12600.6	13593.2	15283.4	17734.9	21427.6	24131.6	24432.2	24064.1	17176.0
52.5°	9669.2	9665.4	10478.7	11825.8	13687.6	16809.8	21121.1	24478.5	25332.3	25050.9	18058.7
55°	7156.0	7206.1	8052.2	9411.0	11615.8	15121.5	20120.9	24121.9	25675.3	25476.8	18640.8
57°	5323.2	5411.8	6090.3	7528.0	9811.9	13450.5	18789.1	23484.0	25810.2	25702.3	19124.5
57.5°	4968.5	4972.4	5633.4	6940.2	9283.7	12808.8	18407.6	23218.1	25806.4	25746.6	19203.5
60°	3058.6	3155.0	3611.8	4691.0	6795.6	9996.9	15850.0	21689.7	25605.9	25692.7	19540.8
62.5°	1830.9	1871.4	2168.2	2827.4	4380.7	7296.7	12970.7	19733.5	25083.7	25347.7	19517.7
65°	1177.6	1187.2	1322.1	1711.4	2738.7	4932.0	9994.9	17149.0	23732.6	24218.3	18754.5
67.5°	909.7	925.1	979.1	1123.6	1588.1	3072.1	7069.3	14391.0	21547.1	22173.5	16904.3
70°	807.5	815.3	834.5	880.8	1050.4	1734.6	4398.1	11241.9	17867.9	18045.2	13228.9
72.5°	659.1	680.4	740.1	755.5	832.6	1083.1	2447.6	7545.4	12005.1	12049.4	7400.8
75°	510.7	514.6	603.2	647.6	701.6	745.9	1092.8	3804.4	5766.5	5458.1	2852.4
77.5°	381.6	399.0	439.4	495.3	572.4	533.9	489.5	1433.9	1790.5	1757.7	828.7
80°	244.7	254.4	306.5	372.0	445.2	348.8	275.6	420.2	393.2	404.7	198.5
82.5°	123.4	125.3	196.5	302.6	283.3	175.3	173.4	171.6	146.5	144.6	92.5
85°	13.5	28.9	127.2	173.4	127.2	57.8	80.9	79.1	77.1	79.1	54.0
87.5°	1.9	1.9	21.2	25.1	17.3	19.3	23.1	25.1	30.9	28.9	23.1
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°	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8
2.5°	2407.2	2330.1	2187.4	2050.6	1948.5	1883.0	1798.1	1767.4	1723.0	1717.2	1696.0
5°	2511.2	2364.8	2116.1	1919.6	1761.6	1642.1	1537.9	1451.2	1381.8	1366.5	1374.2
7.5°	2659.7	2441.8	2094.9	1827.1	1607.3	1403.0	1237.3	1135.2	1061.9	1034.9	1038.8
10°	2827.4	2544.0	2091.1	1728.8	1393.5	1142.9	961.7	871.1	828.7	813.3	796.0
12.5°	3025.8	2661.6	2081.5	1576.5	1158.3	911.6	782.5	728.5	688.0	676.5	676.5
15°	3249.4	2786.8	2035.2	1387.6	940.5	753.5	666.8	624.4	611.0	599.4	599.4
17.5°	3482.6	2910.2	1938.8	1154.4	780.5	645.6	591.6	566.6	547.3	533.9	533.9
20°	3748.6	3031.6	1784.7	948.2	659.1	576.3	533.9	504.9	489.5	477.9	474.1
22.5°	4001.1	3129.9	1588.1	778.6	574.3	518.5	479.9	449.1	433.6	427.8	427.8
25°	4263.2	3189.7	1351.1	643.7	524.2	470.3	427.8	402.8	389.3	385.4	383.5
27.5°	4517.6	3224.4	1142.9	562.8	477.9	426.0	385.4	366.2	352.7	348.8	350.8
30°	4825.9	3230.1	940.5	504.9	437.5	383.5	346.9	329.6	321.9	318.0	316.0
32.5°	5138.2	3222.5	790.2	470.3	399.0	346.9	316.0	302.6	296.8	291.0	291.0
35°	5489.0	3181.9	672.6	435.6	362.3	316.0	289.1	277.5	269.8	264.1	262.1
37.5°	5924.5	3160.7	605.2	397.0	329.6	287.2	262.1	250.5	244.7	237.1	235.1
40°	6610.6	3255.2	584.0	362.3	296.8	260.2	237.1	223.5	215.9	208.1	206.2
42.5°	7466.3	3420.9	549.3	327.7	267.9	235.1	212.0	196.5	183.1	173.4	169.6
45°	8574.5	3638.8	495.3	291.0	242.8	208.1	187.0	167.7	150.3	142.6	140.7
47.5°	9736.7	3848.8	447.2	262.1	215.9	185.0	161.9	140.7	125.3	119.5	117.6
50°	10449.8	3891.2	416.3	229.3	188.9	160.0	136.8	117.6	107.9	102.2	102.2
52.5°	10775.5	3823.8	373.9	200.4	163.8	140.7	117.6	102.2	96.4	92.5	90.6
55°	11002.9	3719.7	318.0	173.4	140.7	119.5	104.0	92.5	84.8	80.9	79.1
57°	11135.8	3579.0	275.6	152.2	121.4	104.0	92.5	82.8	75.2	67.4	67.4
57.5°	11141.7	3525.1	264.1	150.3	115.6	100.2	90.6	80.9	71.3	63.6	61.6
60°	10970.1	3155.0	212.0	127.2	92.5	84.8	75.2	63.6	50.1	42.4	40.5
62.5°	10418.9	2684.7	175.3	107.9	75.2	65.5	54.0	48.2	34.6	25.1	25.1
65°	9584.4	2177.9	150.3	86.7	61.6	48.2	36.6	34.6	21.2	11.5	9.7
67.5°	8378.0	1696.0	127.2	71.3	52.1	34.6	25.1	23.1	11.5	3.9	0.0
70°	6383.2	1156.4	106.0	57.8	38.5	25.1	17.3	13.5	7.7	1.9	0.0
72.5°	3679.2	636.0	88.6	44.3	28.9	19.3	13.5	7.7	7.7	0.0	0.0
75°	1314.4	273.7	67.4	32.8	23.1	15.4	9.7	3.9	5.8	1.9	0.0
77.5°	418.2	146.5	44.3	25.1	19.3	11.5	7.7	3.9	3.9	1.9	0.0
80°	123.4	77.1	27.0	21.2	13.5	9.7	5.8	1.9	3.9	1.9	0.0
82.5°	67.4	38.5	21.2	15.4	13.5	7.7	5.8	1.9	1.9	1.9	0.0
85°	34.6	23.1	17.3	15.4	13.5	7.7	5.8	1.9	0.0	1.9	1.9
87.5°	19.3	17.3	17.3	15.4	13.5	9.7	5.8	1.9	0.0	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)