

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: P458362

Luminaire Tested: **GALN-SA9D-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50005 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

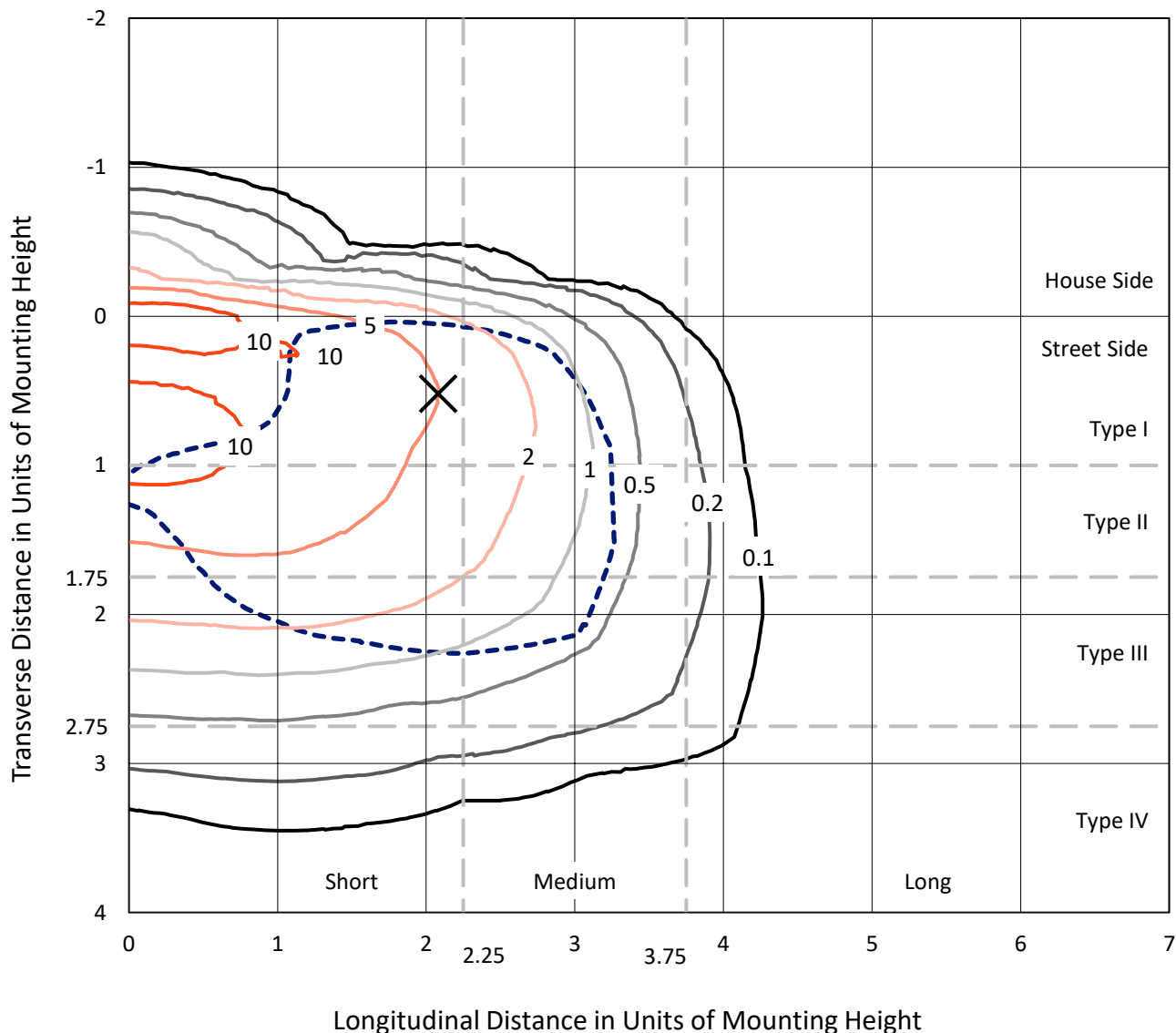
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

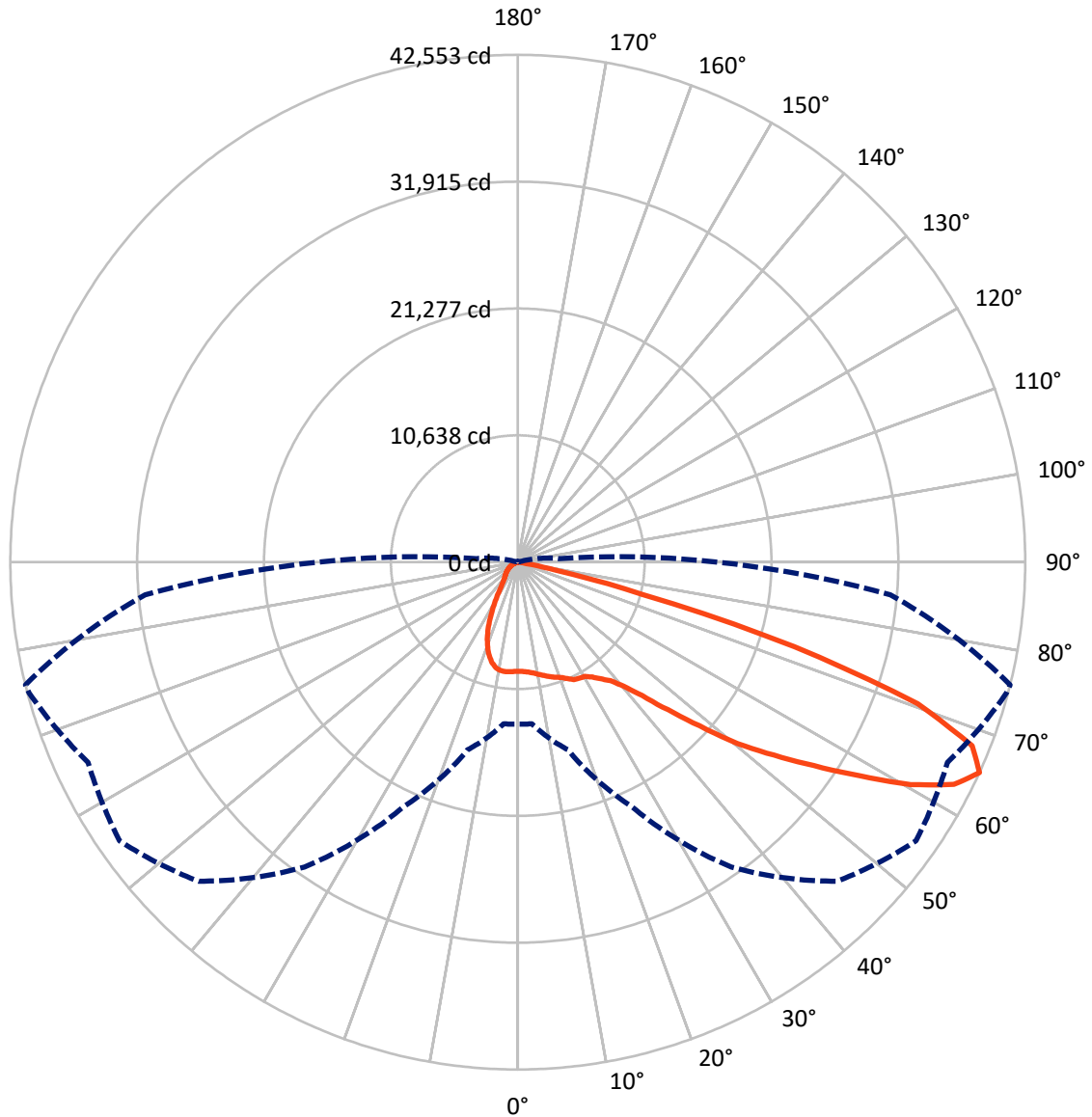
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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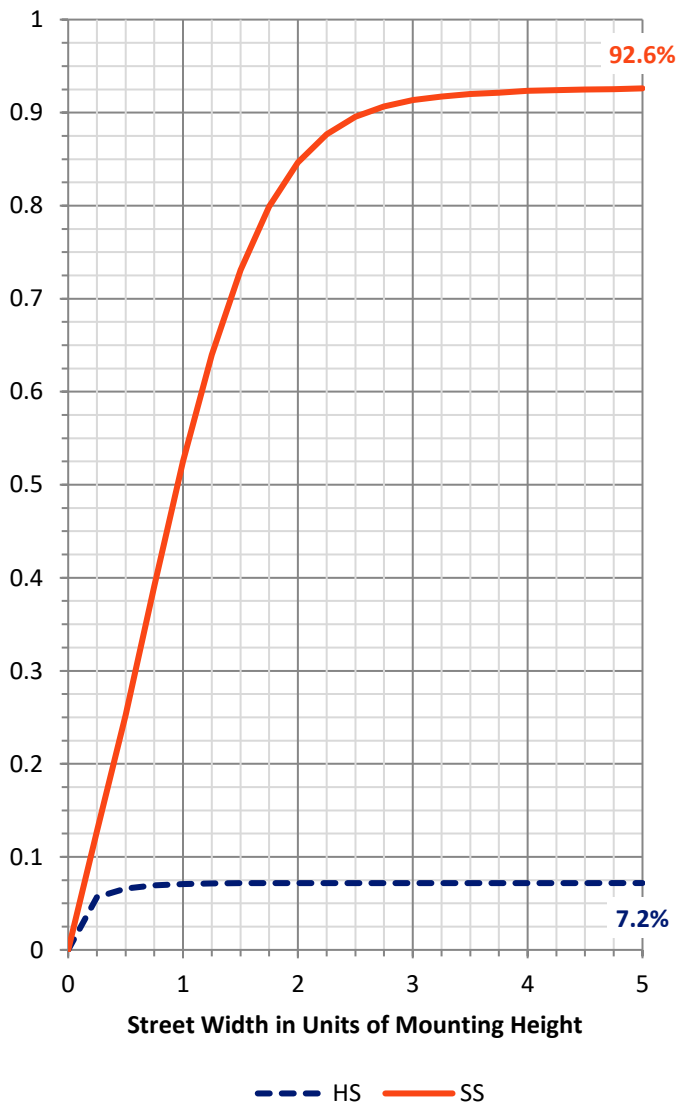
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3611.4	0.0	3611.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	46393.7	0.0	46393.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	50005.0	0.0	50005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.5	1.5
10°-20°	1677.8	3.4
20°-30°	2703.6	5.4
30°-40°	4701.0	9.4
40°-50°	7768.1	15.5
50°-60°	12000.1	24.0
60°-70°	14653.8	29.3
70°-80°	5561.5	11.1
80°-90°	185.6	0.4
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°	50005.0	100.0
0°-180°	50005.0	100.0

Coefficient of Utilization



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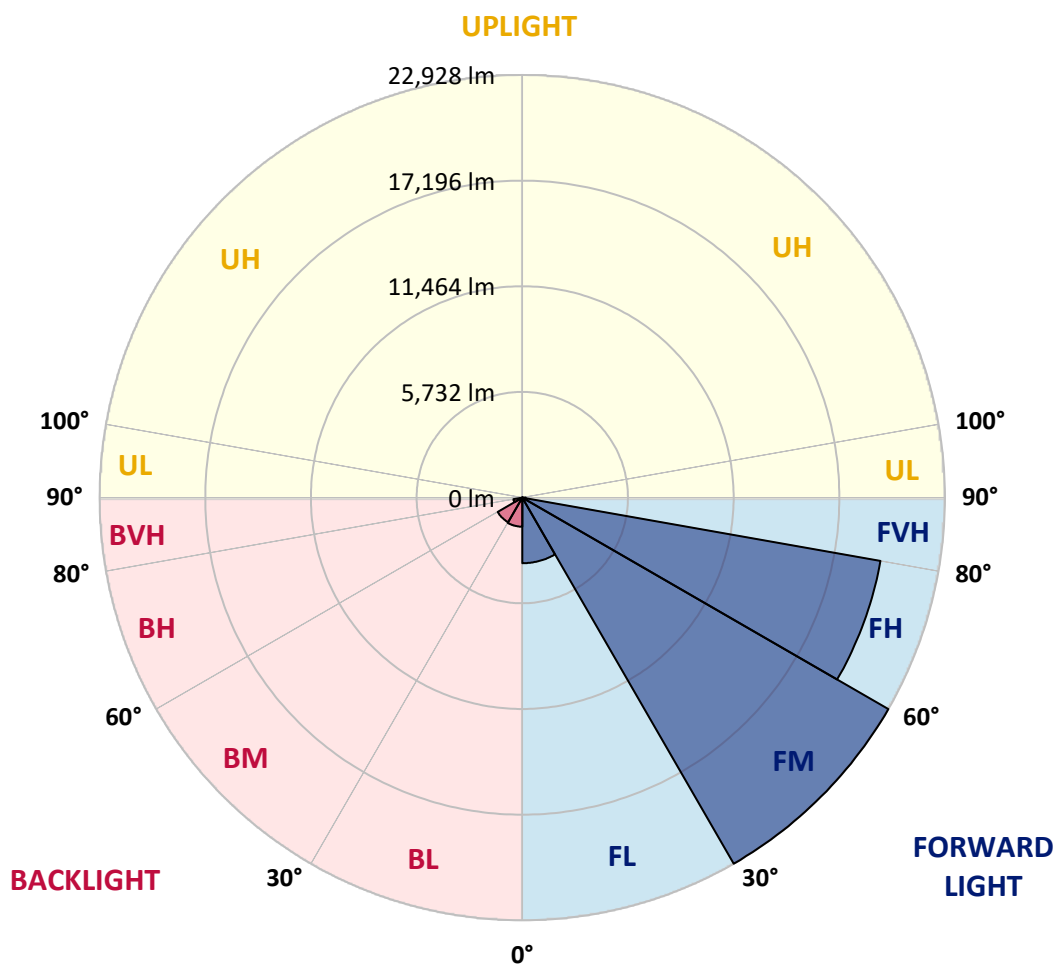
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3557.3	7.1			
FM	(30°-60°)	22928.1	45.9			
FH	(60°-80°)	19725.3	39.4			G5
FVH	(80°-90°)	183.0	0.4			G2/225
BL	(0°-30°)	1577.7	3.2	B3/2500		
BM	(30°-60°)	1541.1	3.1	B2/2500		
BH	(60°-80°)	490.0	1.0	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	9147.5	9147.5	9147.5	9147.5	9147.5	9147.5	9147.5	9147.5	9147.5	9147.5	9147.5
2.5°	8741.5	8745.0	8766.2	8819.2	8900.4	8967.5	9023.9	9115.7	9179.3	9186.3	9207.5
5°	8137.8	8095.4	8137.8	8275.5	8399.0	8586.2	8815.6	9045.1	9249.9	9264.0	9362.9
7.5°	7459.9	7495.2	7562.3	7703.5	7936.6	8222.5	8554.4	8963.9	9352.3	9387.6	9581.8
10°	6771.5	6849.2	6958.6	7174.0	7498.8	7869.5	8321.4	8907.4	9514.7	9564.1	9899.5
12.5°	6136.0	6171.3	6305.5	6595.0	6997.4	7520.0	8144.9	8875.7	9694.7	9754.8	10238.4
15°	5648.8	5694.7	5811.2	6072.4	6520.8	7191.6	8000.1	8865.1	9871.3	9956.0	10577.4
17.5°	5557.0	5585.2	5634.7	5811.2	6203.1	6930.4	7869.5	8861.5	10040.7	10143.1	10891.6
20°	5934.8	5910.0	5860.6	5843.0	6058.3	6729.1	7774.1	8889.8	10203.1	10319.6	11223.4
22.5°	6880.9	6912.7	6623.2	6280.7	6210.1	6697.3	7760.0	9023.9	10460.9	10598.5	11594.1
25°	8889.8	8646.2	8194.3	7375.2	6757.4	6891.5	7918.9	9341.7	10760.9	10912.8	11929.5
27.5°	11110.5	11036.3	10333.8	8985.1	7834.2	7301.1	8201.3	9585.3	10859.8	11015.1	12120.2
30°	13292.3	13380.6	12575.6	11085.8	9398.2	8060.1	8466.1	9677.1	10948.1	11110.5	12363.8
32.5°	15315.3	15421.2	14715.1	13239.4	11241.1	9373.5	8921.6	10033.7	11318.8	11484.7	12769.8
35°	16907.5	16921.7	16388.6	15212.9	13253.5	10969.2	9906.6	10658.6	11820.1	12014.3	13200.5
37.5°	18369.2	18348.0	17723.1	16709.8	14930.5	12554.4	11145.8	11378.8	12392.0	12593.3	13821.9
40°	19453.0	19467.1	19265.9	18312.7	16494.5	14019.6	12127.2	12053.1	13352.3	13666.5	14725.7
42.5°	20176.8	20307.4	20406.3	19922.6	18461.0	15823.7	13634.8	13497.1	15018.7	15280.0	16003.7
45°	20762.8	20995.8	21490.1	21465.4	20349.8	18037.3	15703.6	15421.2	17380.6	17659.5	17631.3
47.5°	21190.0	21426.6	22245.6	22739.9	22125.6	20183.8	18305.6	18062.0	20201.5	20505.1	19428.3
50°	21408.9	21691.4	22736.4	23693.1	23513.1	22252.7	21271.2	21285.3	23608.4	23901.4	21511.3
52.5°	20897.0	21264.2	22997.6	24720.5	25070.0	24233.3	24049.7	24515.8	26641.1	26891.8	23393.1
55°	19262.4	19724.9	22641.1	25596.1	26874.1	26570.5	27206.0	27915.6	29956.2	30118.6	25324.2
57.5°	18227.9	18718.7	21589.0	26341.0	29041.8	29507.9	30514.1	31033.0	33377.3	33790.4	27541.4
60°	17355.9	17740.7	20724.0	26499.9	31244.9	33101.9	34079.9	34616.5	37599.8	37868.1	29981.0
62.5°	15904.9	16346.2	19262.4	25391.3	32353.4	35979.3	38005.8	37765.7	40865.5	41052.6	31477.9
65°	13571.2	13610.1	16296.8	22605.8	31209.6	37846.9	40763.1	39756.9	42425.9	42553.0	31361.4
67.5°	10129.0	10503.2	12536.8	17769.0	26362.2	36251.1	41656.3	39809.9	41440.9	41087.9	28872.4
70°	6524.4	6810.3	8497.9	12321.4	19008.2	30252.8	38694.2	37080.8	36371.2	35587.4	23633.1
72.5°	3011.5	3378.7	5048.6	7039.8	11272.9	21550.1	31410.8	30125.7	26178.6	24243.9	15022.3
75°	1313.3	1405.1	2492.5	3714.1	5285.1	11396.4	20709.9	18701.0	11823.6	10799.8	6012.4
77.5°	801.4	861.4	1306.3	1991.2	2075.9	4342.5	11156.4	8159.0	3654.1	3223.3	1631.1
80°	543.7	610.8	949.7	1041.5	709.6	1211.0	4187.2	2178.3	737.9	706.1	349.5
82.5°	264.8	335.4	702.6	582.5	307.2	388.4	1218.0	466.0	215.4	201.2	123.6
85°	38.8	67.1	395.4	381.3	137.7	91.8	215.4	116.5	74.1	70.6	56.5
87.5°	0.0	0.0	134.2	60.0	14.1	14.1	24.7	24.7	28.2	24.7	28.2
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°	9147.5	9147.5	9147.5	9147.5	9147.5	9147.5	9147.5	9147.5	9147.5	9147.5	9147.5
2.5°	9218.1	9235.8	9168.7	9073.4	8971.0	8868.6	8723.9	8593.2	8515.6	8561.4	8448.5
5°	9384.1	9369.9	9193.4	8903.9	8519.1	8056.6	7597.6	7205.7	7078.6	6888.0	6866.8
7.5°	9613.5	9574.7	9200.5	8536.7	7668.2	6799.7	5952.4	5391.1	5069.8	4797.9	4805.0
10°	9934.8	9821.8	9119.3	7890.7	6460.8	5151.0	4070.7	3329.3	3008.0	2905.6	2824.4
12.5°	10266.7	10047.8	8893.3	7018.6	5031.0	3519.9	2474.9	2023.0	1825.3	1761.7	1754.7
15°	10563.2	10217.3	8497.9	5970.1	3657.6	2248.9	1687.6	1539.3	1514.6	1518.1	1514.6
17.5°	10856.3	10351.4	7950.7	4858.0	2485.5	1613.4	1451.0	1415.7	1426.3	1440.4	1436.9
20°	11099.9	10379.7	7251.6	3707.0	1758.2	1415.7	1362.8	1355.7	1366.3	1376.9	1376.9
22.5°	11364.7	10400.8	6422.0	2566.7	1436.9	1316.9	1288.6	1288.6	1302.8	1316.9	1320.4
25°	11562.4	10284.3	5429.9	1842.9	1267.4	1221.6	1207.4	1211.0	1225.1	1232.1	1228.6
27.5°	11594.1	9956.0	4377.8	1412.2	1150.9	1105.0	1090.9	1105.0	1087.4	1098.0	1090.9
30°	11622.4	9539.4	3311.6	1189.8	1045.0	974.4	953.2	932.1	917.9	900.3	896.7
32.5°	11710.6	9048.7	2418.4	1069.7	946.2	868.5	819.1	759.1	713.2	699.0	695.5
35°	11749.5	8459.1	1775.8	974.4	857.9	773.2	684.9	600.2	533.1	508.4	526.0
37.5°	11897.8	7887.1	1376.9	903.8	780.2	674.3	561.3	455.4	391.9	377.8	384.8
40°	12201.4	7265.8	1154.5	843.8	713.2	582.5	444.8	342.5	300.1	286.0	282.4
42.5°	12688.6	6647.9	1027.4	787.3	646.1	490.7	349.5	268.3	233.0	222.4	222.4
45°	13281.7	6054.8	939.1	727.3	575.5	395.4	275.4	215.4	194.2	187.1	187.1
47.5°	14062.0	5535.8	865.0	667.3	497.8	314.2	222.4	187.1	173.0	176.5	180.1
50°	14852.8	5151.0	783.8	600.2	409.5	257.7	190.6	165.9	162.4	165.9	165.9
52.5°	15449.4	4925.0	674.3	508.4	321.3	215.4	169.5	155.3	151.8	144.8	144.8
55°	16254.4	4875.6	536.6	413.1	254.2	180.1	151.8	141.2	130.6	123.6	120.0
57.5°	17288.8	4932.1	413.1	321.3	197.7	148.3	134.2	116.5	102.4	88.3	88.3
60°	17931.4	4805.0	321.3	247.1	144.8	120.0	102.4	84.7	67.1	56.5	53.0
62.5°	17726.6	4268.4	254.2	183.6	102.4	88.3	67.1	56.5	38.8	28.2	24.7
65°	16671.0	3445.8	204.8	127.1	74.1	53.0	35.3	35.3	17.7	3.5	0.0
67.5°	14591.5	2552.5	162.4	84.7	42.4	24.7	17.7	10.6	0.0	0.0	0.0
70°	11876.6	1842.9	127.1	53.0	24.7	17.7	7.1	3.5	0.0	0.0	0.0
72.5°	7541.1	1055.6	98.9	31.8	17.7	7.1	0.0	0.0	0.0	0.0	0.0
75°	2916.2	413.1	67.1	21.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	826.1	194.2	38.8	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	215.4	84.7	21.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	102.4	35.3	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	60.0	14.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	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)