

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: P451891

Luminaire Tested: **GALN-SA2D-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451891
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-SA2D-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA 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: 12455 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

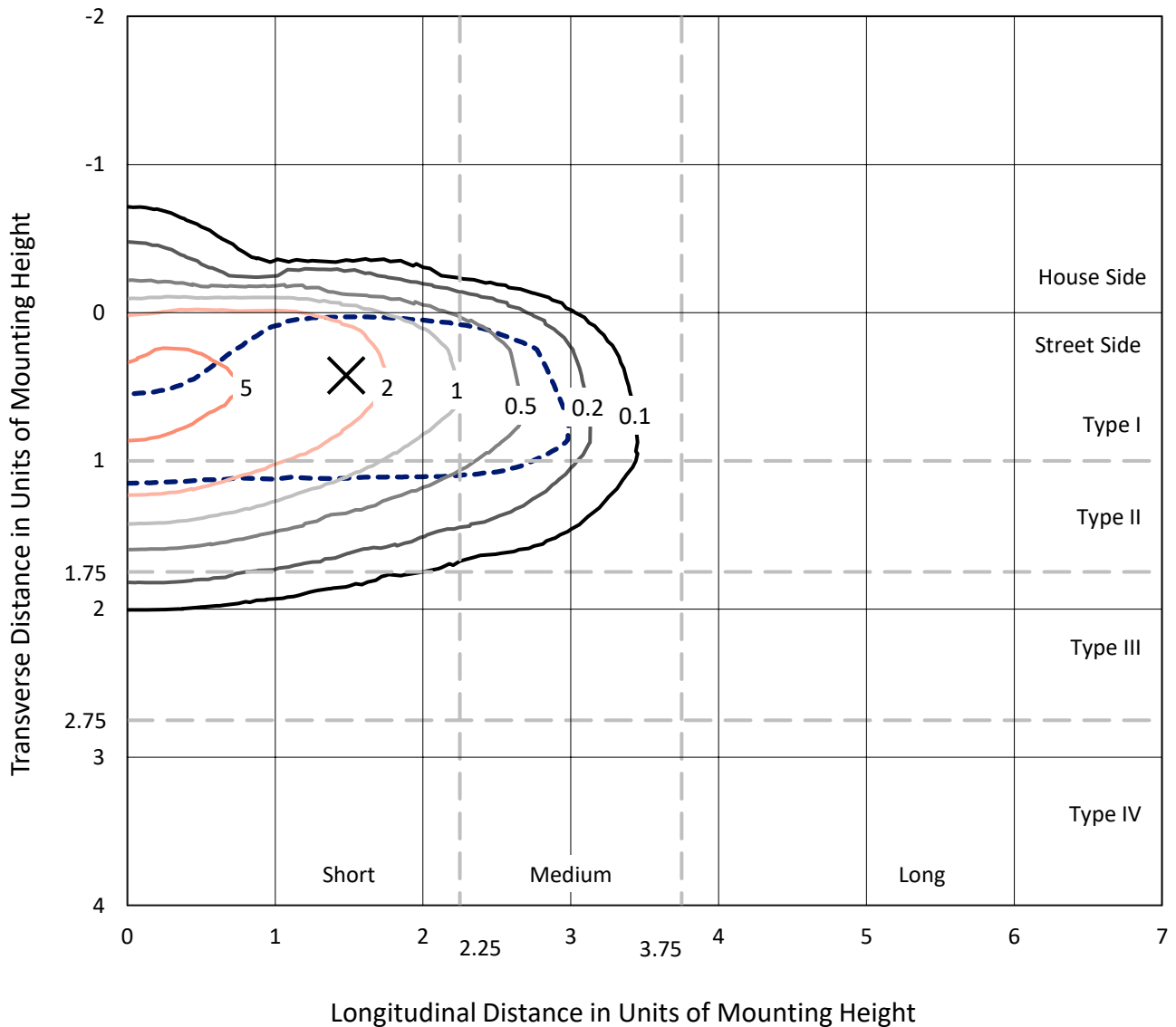
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

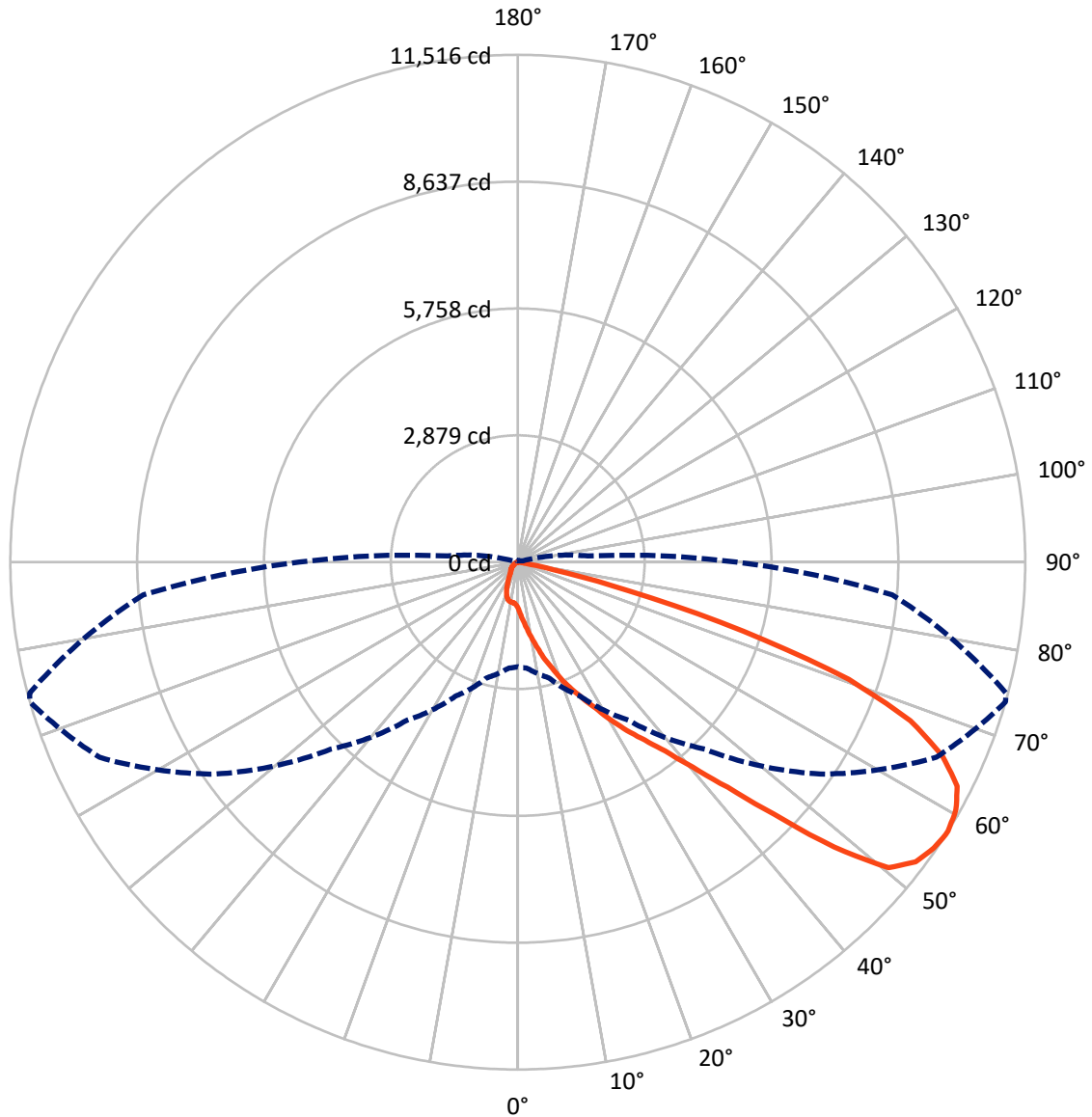
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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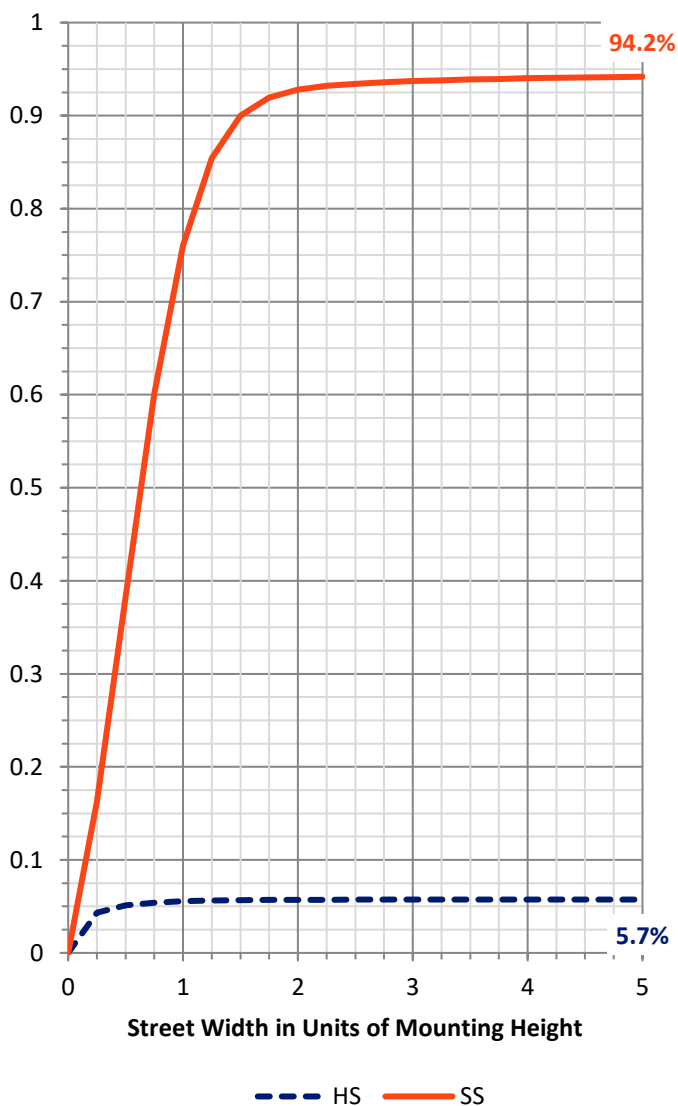
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	718.4	0.0	718.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	11736.6	0.0	11736.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	12455.0	0.0	12455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	1.0
10°-20°	496.3	4.0
20°-30°	1061.9	8.5
30°-40°	1951.7	15.7
40°-50°	2992.0	24.0
50°-60°	3165.1	25.4
60°-70°	2066.9	16.6
70°-80°	564.8	4.5
80°-90°	30.4	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°	12455.0	100.0
0°-180°	12455.0	100.0

Coefficient of Utilization



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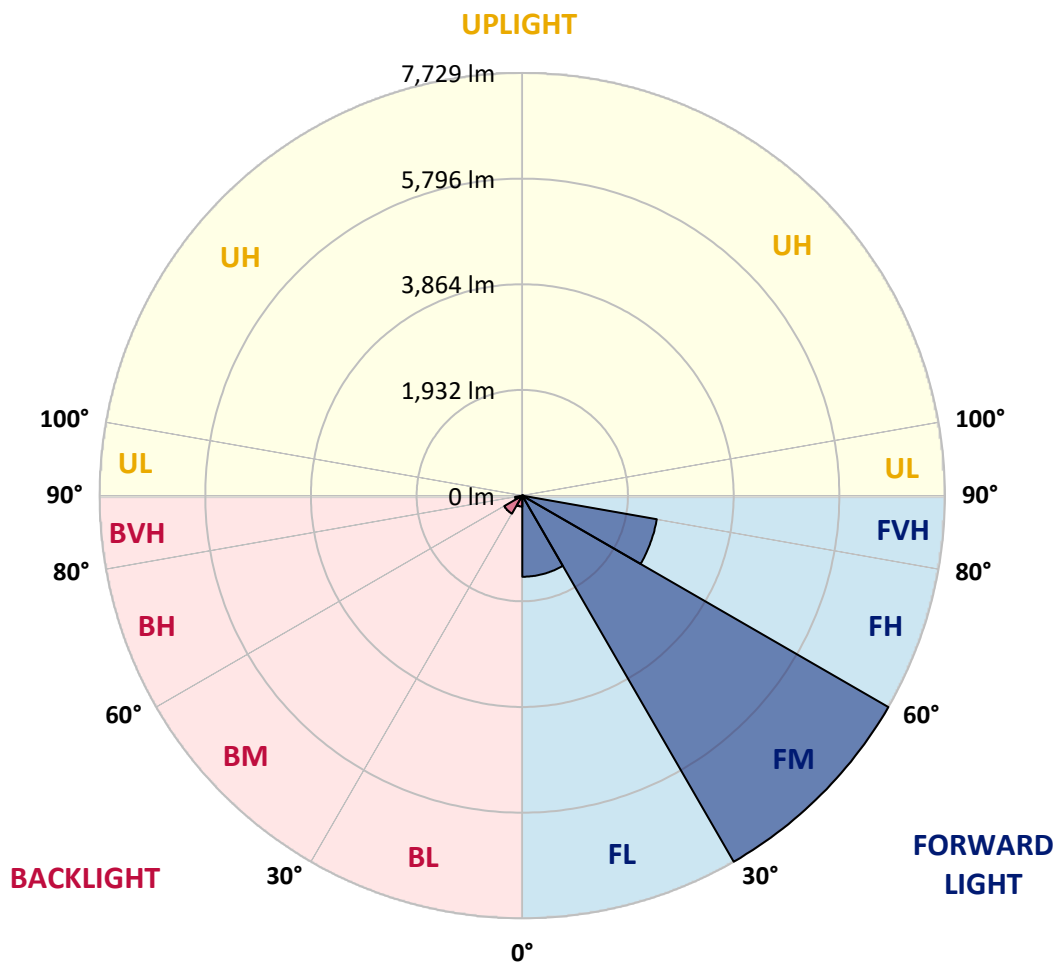
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1483.4	11.9			
FM	(30°-60°)	7728.6	62.1			
FH	(60°-80°)	2496.8	20.0			G2/5000
FVH	(80°-90°)	27.9	0.2			G1/100
BL	(0°-30°)	200.7	1.6	B1/500		
BM	(30°-60°)	380.3	3.1	B1/1000		
BH	(60°-80°)	134.9	1.1	B1/500		G1/500
BVH	(80°-90°)	2.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1526.4	1512.6	1485.1	1475.6	1435.2	1372.4	1317.4	1243.5	1185.0	1179.0	1108.4
5°	2044.0	2013.1	2000.2	1938.3	1841.1	1749.9	1593.4	1474.8	1338.0	1327.7	1185.8
7.5°	2542.8	2499.8	2486.9	2428.4	2314.9	2171.3	1968.4	1752.5	1535.8	1516.0	1289.9
10°	2904.0	2910.0	2886.8	2848.1	2756.1	2609.9	2359.6	2064.7	1756.0	1731.0	1406.8
12.5°	3162.8	3161.9	3166.2	3165.4	3116.4	3005.4	2742.3	2402.6	1998.5	1949.5	1541.0
15°	3331.4	3333.9	3346.8	3391.5	3396.7	3327.9	3108.6	2726.0	2279.7	2218.6	1686.3
17.5°	3501.6	3519.7	3540.3	3582.5	3620.3	3592.8	3438.0	3063.1	2534.2	2488.6	1842.0
20°	3782.8	3807.8	3795.7	3821.5	3841.3	3843.9	3724.3	3374.3	2842.9	2766.4	2020.0
22.5°	4232.6	4231.7	4200.7	4154.3	4115.6	4113.9	4005.5	3694.2	3123.3	3049.3	2198.8
25°	4801.0	4803.5	4743.4	4610.9	4514.6	4396.8	4272.1	3974.6	3423.4	3332.2	2387.2
27.5°	5452.8	5436.5	5345.3	5163.0	4972.1	4770.9	4591.1	4300.5	3741.5	3665.9	2603.0
30°	6038.4	6032.4	5925.7	5703.0	5451.9	5249.8	4989.3	4709.0	4153.4	4060.6	2844.6
32.5°	6583.6	6592.2	6444.3	6213.8	5971.3	5738.3	5463.1	5099.4	4557.6	4426.0	3107.8
35°	7009.3	7017.9	6864.8	6673.0	6423.6	6230.2	5967.9	5515.6	4956.6	4845.7	3410.5
37.5°	7236.3	7247.5	7158.9	7014.4	6858.8	6761.6	6517.4	6051.3	5441.6	5374.5	3768.2
40°	7279.3	7292.2	7253.5	7214.8	7206.2	7275.8	7204.5	6682.5	6114.1	6009.2	4301.3
42.5°	7150.3	7167.5	7184.7	7270.7	7446.1	7701.5	7950.0	7539.0	6980.0	6839.0	4953.2
45°	6811.5	6809.8	6877.7	7100.4	7493.4	8038.6	8729.1	8611.3	8159.8	7992.2	5874.2
47.5°	6231.9	6223.3	6370.3	6687.6	7299.9	8100.5	9364.6	9913.2	9665.6	9510.8	6863.9
50°	5348.7	5390.9	5622.2	6065.1	6819.2	7913.0	9560.7	10767.1	10901.3	10737.0	7663.7
52.5°	4314.2	4312.5	4675.4	5276.5	6107.2	7500.3	9423.9	10921.9	11302.9	11177.3	8057.5
55°	3192.9	3215.3	3592.8	4199.0	5182.8	6747.0	8977.6	10762.8	11455.9	11367.4	8317.2
57°	2375.1	2414.7	2717.4	3358.9	4377.9	6001.4	8383.4	10478.2	11516.1	11468.0	8533.0
57.5°	2216.9	2218.6	2513.6	3096.6	4142.3	5715.1	8213.2	10359.5	11514.4	11487.7	8568.3
60°	1364.7	1407.7	1611.5	2093.1	3032.1	4460.4	7072.0	9677.6	11425.0	11463.7	8718.8
62.5°	816.9	835.0	967.4	1261.5	1954.6	3255.7	5787.3	8804.8	11191.9	11309.7	8708.5
65°	525.4	529.7	589.9	763.6	1222.0	2200.6	4459.6	7651.6	10589.1	10805.8	8367.9
67.5°	405.9	412.8	436.8	501.3	708.6	1370.7	3154.2	6421.1	9614.0	9893.4	7542.4
70°	360.3	363.7	372.3	393.0	468.7	773.9	1962.4	5015.9	7972.4	8051.5	5902.5
72.5°	294.1	303.6	330.2	337.1	371.5	483.3	1092.1	3366.6	5356.5	5376.3	3302.1
75°	227.9	229.6	269.2	288.9	313.0	332.8	487.6	1697.5	2572.9	2435.3	1272.7
77.5°	170.3	178.0	196.1	221.0	255.4	238.2	218.4	639.8	798.9	784.3	369.8
80°	109.2	113.5	136.7	166.0	198.6	155.6	123.0	187.5	175.4	180.6	88.6
82.5°	55.0	55.9	87.7	135.0	126.4	78.3	77.4	76.5	65.4	64.5	41.3
85°	6.0	12.9	56.8	77.4	56.8	25.8	36.1	35.3	34.4	35.3	24.1
87.5°	0.9	0.9	9.5	11.2	7.7	8.6	10.3	11.2	13.8	12.9	10.3
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°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1074.0	1039.7	976.0	915.0	869.4	840.1	802.3	788.6	768.8	766.2	756.7
5°	1120.5	1055.1	944.2	856.5	786.0	732.7	686.2	647.5	616.6	609.7	613.1
7.5°	1186.7	1089.5	934.7	815.2	717.2	626.0	552.1	506.5	473.8	461.8	463.5
10°	1261.5	1135.1	933.0	771.4	621.7	509.9	429.1	388.7	369.8	362.9	355.1
12.5°	1350.1	1187.6	928.7	703.4	516.8	406.7	349.1	325.1	307.0	301.8	301.8
15°	1449.8	1243.5	908.1	619.1	419.6	336.2	297.5	278.6	272.6	267.4	267.4
17.5°	1553.9	1298.5	865.1	515.1	348.3	288.1	264.0	252.8	244.2	238.2	238.2
20°	1672.6	1352.7	796.3	423.1	294.1	257.1	238.2	225.3	218.4	213.3	211.5
22.5°	1785.2	1396.5	708.6	347.4	256.3	231.3	214.1	200.4	193.5	190.9	190.9
25°	1902.2	1423.2	602.8	287.2	233.9	209.8	190.9	179.7	173.7	172.0	171.1
27.5°	2015.7	1438.7	509.9	251.1	213.3	190.0	172.0	163.4	157.4	155.6	156.5
30°	2153.3	1441.2	419.6	225.3	195.2	171.1	154.8	147.0	143.6	141.9	141.0
32.5°	2292.6	1437.8	352.6	209.8	178.0	154.8	141.0	135.0	132.4	129.8	129.8
35°	2449.1	1419.7	300.1	194.3	161.7	141.0	129.0	123.8	120.4	117.8	116.9
37.5°	2643.4	1410.3	270.0	177.1	147.0	128.1	116.9	111.8	109.2	105.8	104.9
40°	2949.5	1452.4	260.6	161.7	132.4	116.1	105.8	99.8	96.3	92.9	92.0
42.5°	3331.4	1526.4	245.1	146.2	119.5	104.9	94.6	87.7	81.7	77.4	75.7
45°	3825.8	1623.5	221.0	129.8	108.4	92.9	83.4	74.8	67.1	63.6	62.8
47.5°	4344.3	1717.3	199.5	116.9	96.3	82.6	72.2	62.8	55.9	53.3	52.5
50°	4662.5	1736.2	185.7	102.3	84.3	71.4	61.1	52.5	48.2	45.6	45.6
52.5°	4807.8	1706.1	166.8	89.4	73.1	62.8	52.5	45.6	43.0	41.3	40.4
55°	4909.3	1659.7	141.9	77.4	62.8	53.3	46.4	41.3	37.8	36.1	35.3
57°	4968.7	1596.9	123.0	67.9	54.2	46.4	41.3	37.0	33.5	30.1	30.1
57.5°	4971.2	1572.8	117.8	67.1	51.6	44.7	40.4	36.1	31.8	28.4	27.5
60°	4894.7	1407.7	94.6	56.8	41.3	37.8	33.5	28.4	22.4	18.9	18.1
62.5°	4648.8	1197.9	78.3	48.2	33.5	29.2	24.1	21.5	15.5	11.2	11.2
65°	4276.4	971.7	67.1	38.7	27.5	21.5	16.3	15.5	9.5	5.2	4.3
67.5°	3738.1	756.7	56.8	31.8	23.2	15.5	11.2	10.3	5.2	1.7	0.0
70°	2848.1	516.0	47.3	25.8	17.2	11.2	7.7	6.0	3.4	0.9	0.0
72.5°	1641.6	283.8	39.6	19.8	12.9	8.6	6.0	3.4	3.4	0.0	0.0
75°	586.5	122.1	30.1	14.6	10.3	6.9	4.3	1.7	2.6	0.9	0.0
77.5°	186.6	65.4	19.8	11.2	8.6	5.2	3.4	1.7	1.7	0.9	0.0
80°	55.0	34.4	12.0	9.5	6.0	4.3	2.6	0.9	1.7	0.9	0.0
82.5°	30.1	17.2	9.5	6.9	6.0	3.4	2.6	0.9	0.9	0.9	0.0
85°	15.5	10.3	7.7	6.9	6.0	3.4	2.6	0.9	0.0	0.9	0.9
87.5°	8.6	7.7	7.7	6.9	6.0	4.3	2.6	0.9	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)