

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: P453950

Luminaire Tested: **GALN-SA5A-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453950
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-SA5A-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 16699 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

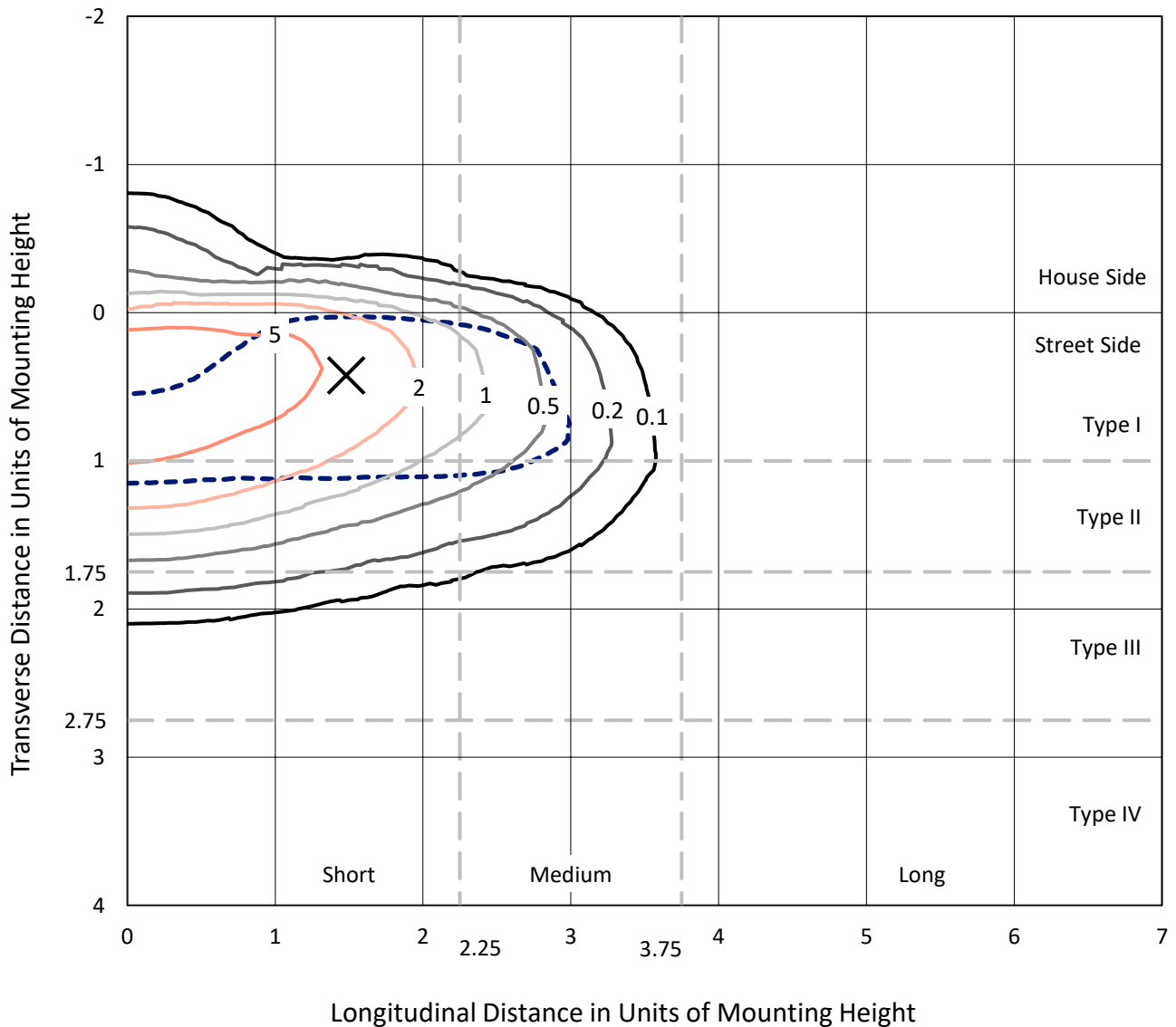
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453950
 CATALOG NUMBER: GALN-SA5A-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

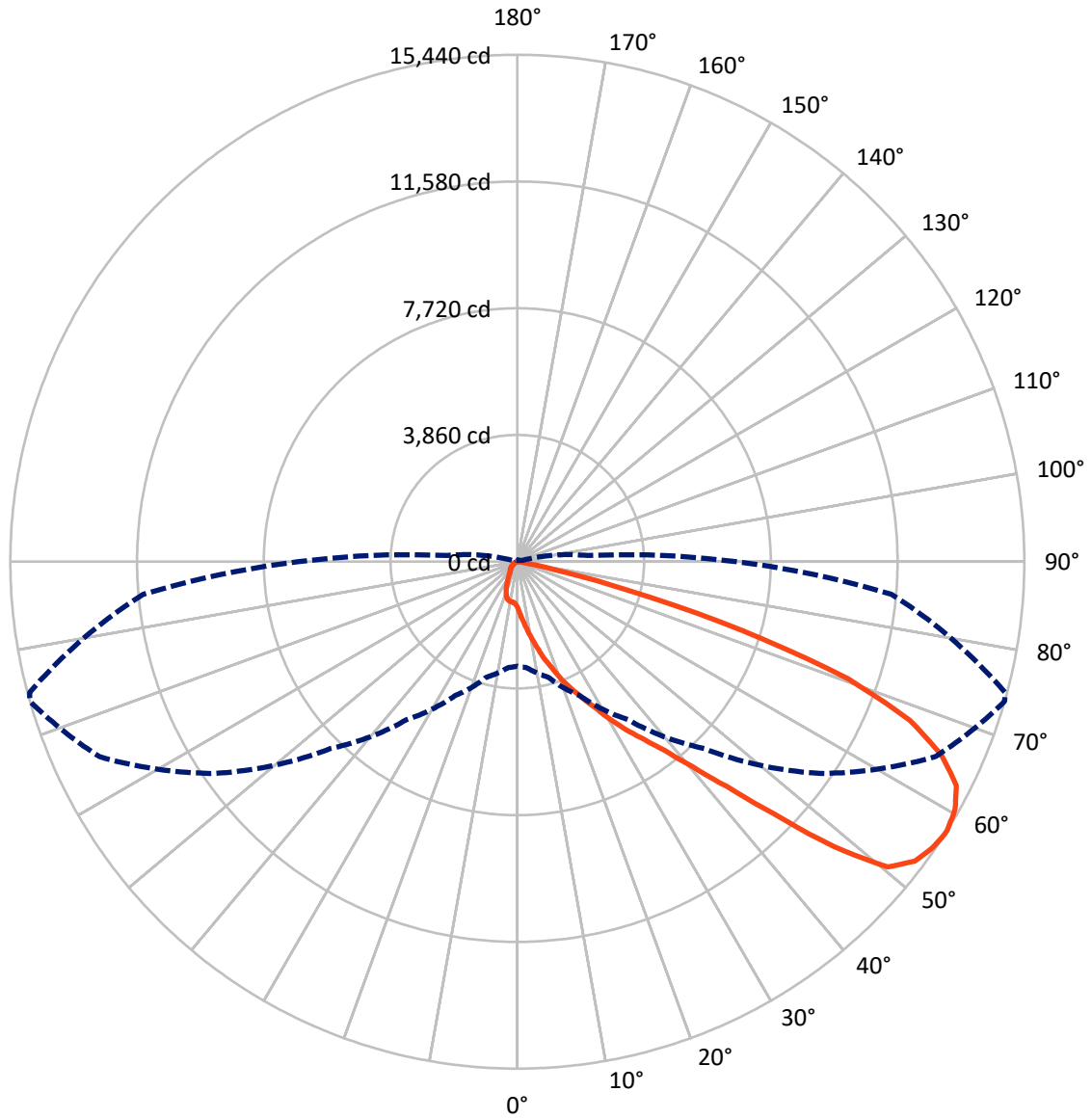
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P453950
CATALOG NUMBER: GALN-SA5A-730-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453950

CATALOG NUMBER: GALN-SA5A-730-U-T2R-HSS

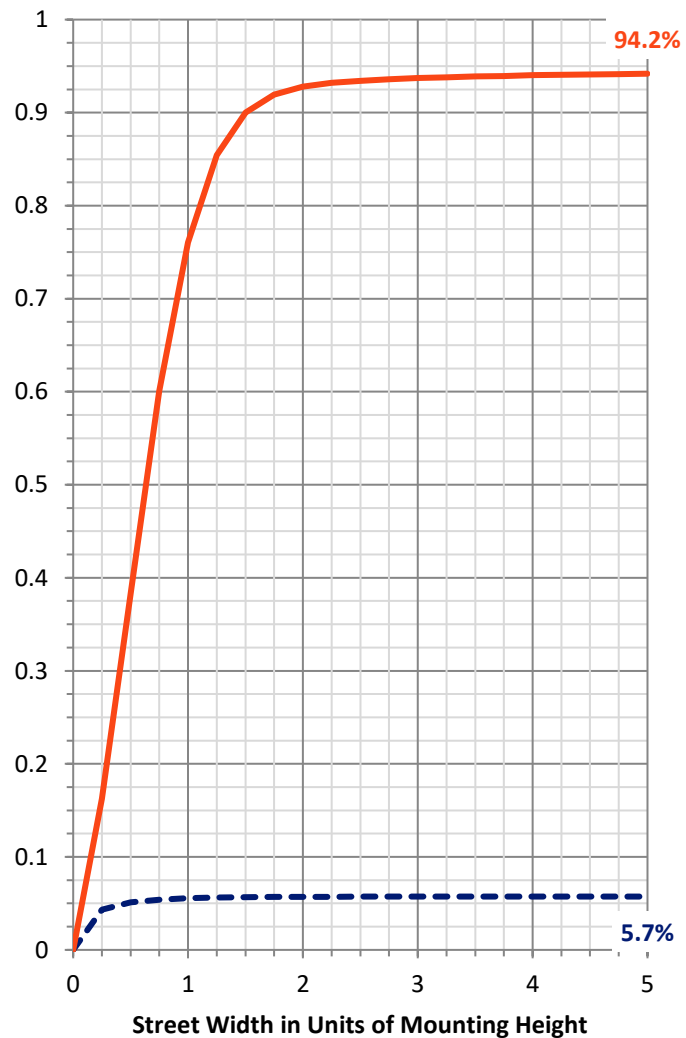
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	963.2	0.0	963.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	15735.9	0.0	15735.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	16699.0	0.0	16699.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	1.0
10°-20°	665.4	4.0
20°-30°	1423.7	8.5
30°-40°	2616.8	15.7
40°-50°	4011.5	24.0
50°-60°	4243.7	25.4
60°-70°	2771.2	16.6
70°-80°	757.2	4.5
80°-90°	40.8	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°	16699.0	100.0
0°-180°	16699.0	100.0



REPORT NUMBER: P453950

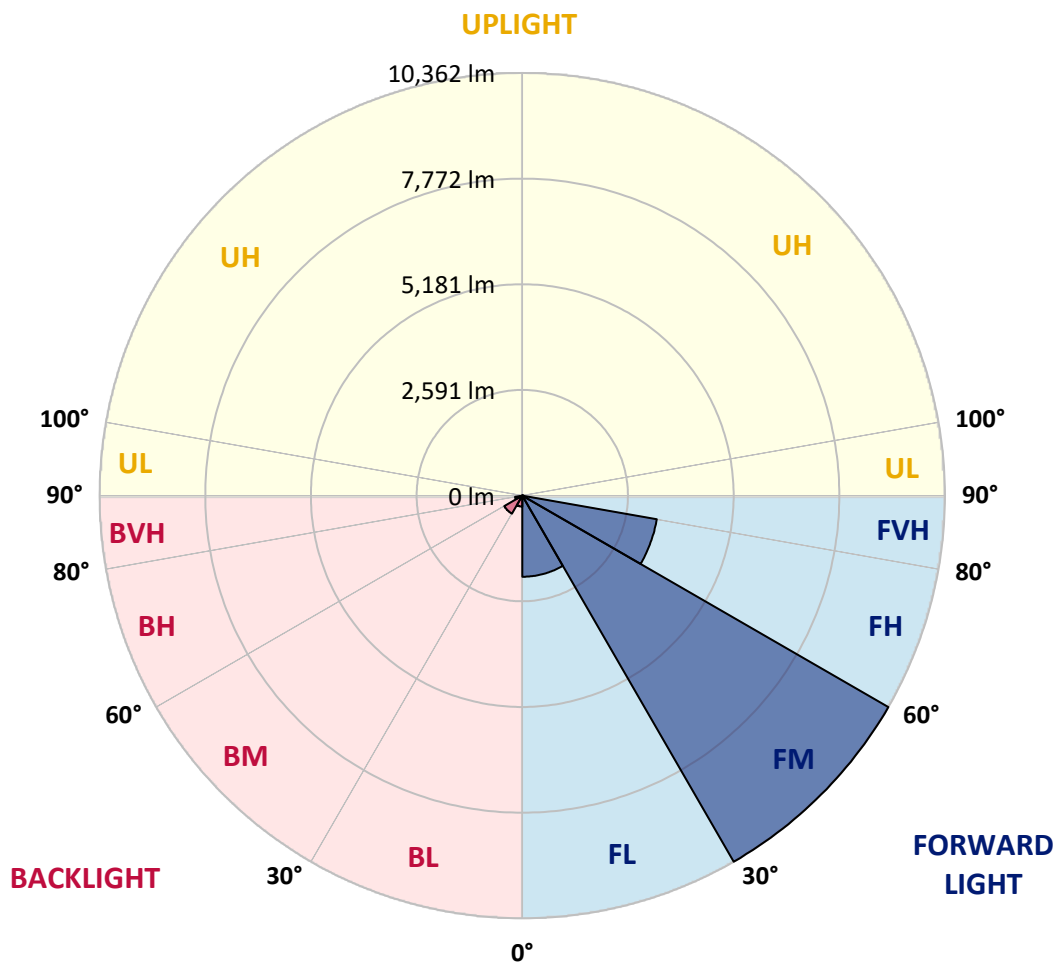
CATALOG NUMBER: GALN-SA5A-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1988.8	11.9			
FM (30°-60°)	10362.0	62.1			
FH (60°-80°)	3347.6	20.0			G2/5000
FVH (80°-90°)	37.4	0.2			G1/100
BL (0°-30°)	269.0	1.6	B1/500		
BM (30°-60°)	509.9	3.1	B1/1000		
BH (60°-80°)	180.8	1.1	B1/500		G1/500
BVH (80°-90°)	3.4	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





REPORT NUMBER: P453950

CATALOG NUMBER: GALN-SA5A-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5
2.5°	2046.5	2028.0	1991.1	1978.4	1924.3	1840.1	1766.3	1667.2	1588.8	1580.7	1486.1
5°	2740.5	2699.0	2681.7	2598.7	2468.5	2346.2	2136.4	1977.3	1794.0	1780.1	1589.9
7.5°	3409.3	3351.6	3334.3	3255.9	3103.7	2911.2	2639.1	2349.7	2059.2	2032.6	1729.4
10°	3893.5	3901.6	3870.4	3818.5	3695.2	3499.2	3163.7	2768.2	2354.3	2320.9	1886.2
12.5°	4240.5	4239.4	4245.1	4244.0	4178.3	4029.5	3676.7	3221.3	2679.4	2613.7	2066.1
15°	4466.5	4470.0	4487.3	4547.2	4554.1	4461.9	4167.9	3654.8	3056.5	2974.6	2260.9
17.5°	4694.8	4719.0	4746.7	4803.2	4853.9	4817.0	4609.5	4106.8	3397.7	3336.6	2469.6
20°	5071.8	5105.2	5089.1	5123.7	5150.2	5153.7	4993.4	4524.1	3811.6	3709.0	2708.3
22.5°	5674.8	5673.6	5632.1	5569.9	5518.0	5515.7	5370.4	4953.0	4187.5	4088.3	2948.1
25°	6436.9	6440.3	6359.6	6182.1	6052.9	5895.0	5727.8	5328.9	4589.9	4467.7	3200.6
27.5°	7310.8	7288.9	7166.7	6922.3	6666.3	6396.5	6155.6	5765.9	5016.5	4915.0	3490.0
30°	8096.0	8087.9	7944.9	7646.3	7309.7	7038.7	6689.4	6313.5	5568.7	5444.2	3813.9
32.5°	8826.9	8838.5	8640.2	8331.2	8006.0	7693.6	7324.6	6837.0	6110.6	5934.2	4166.7
35°	9397.6	9409.2	9203.9	8946.8	8612.5	8353.1	8001.4	7395.0	6645.6	6496.8	4572.6
37.5°	9702.0	9717.0	9598.2	9404.6	9195.9	9065.6	8738.2	8113.3	7295.8	7205.9	5052.2
40°	9759.7	9777.0	9725.1	9673.2	9661.7	9755.0	9659.4	8959.5	8197.4	8056.8	5767.0
42.5°	9586.7	9609.8	9632.8	9748.1	9983.3	10325.8	10659.0	10107.8	9358.4	9169.4	6640.9
45°	9132.5	9130.2	9221.2	9519.8	10046.7	10777.7	11703.5	11545.6	10940.3	10715.4	7875.8
47.5°	8355.4	8343.8	8541.0	8966.4	9787.3	10860.7	12555.5	13291.1	12959.1	12751.5	9202.8
50°	7171.3	7227.8	7537.9	8131.7	9142.8	10609.4	12818.4	14436.0	14615.9	14395.6	10275.0
52.5°	5784.3	5782.0	6268.5	7074.5	8188.2	10056.0	12635.1	14643.5	15154.3	14985.9	10803.1
55°	4280.9	4310.9	4817.0	5629.8	6948.8	9046.0	12036.7	14430.2	15359.5	15240.7	11151.3
57°	3184.4	3237.5	3643.3	4503.4	5869.6	8046.4	11240.0	14048.6	15440.2	15375.6	11440.7
57.5°	2972.3	2974.6	3370.1	4151.7	5553.7	7662.5	11011.8	13889.5	15437.9	15402.2	11487.9
60°	1829.7	1887.4	2160.6	2806.3	4065.3	5980.3	9481.8	12975.2	15318.0	15369.9	11689.7
62.5°	1095.3	1119.5	1297.1	1691.4	2620.6	4365.0	7759.3	11805.0	15005.5	15163.5	11675.9
65°	704.4	710.2	790.9	1023.8	1638.3	2950.4	5979.2	10258.9	14197.3	14487.9	11219.3
67.5°	544.2	553.4	585.7	672.2	950.0	1837.8	4229.0	8609.0	12889.9	13264.6	10112.5
70°	483.1	487.7	499.2	526.9	628.4	1037.6	2631.0	6725.1	10688.9	10795.0	7913.8
72.5°	394.3	407.0	442.7	452.0	498.1	648.0	1464.2	4513.8	7181.7	7208.2	4427.3
75°	305.5	307.8	360.9	387.4	419.7	446.2	653.7	2275.9	3449.6	3265.1	1706.4
77.5°	228.3	238.7	262.9	296.3	342.4	319.4	292.8	857.8	1071.1	1051.5	495.8
80°	146.4	152.2	183.3	222.5	266.3	208.7	164.9	251.3	235.2	242.1	118.8
82.5°	73.8	74.9	117.6	181.0	169.5	104.9	103.8	102.6	87.6	86.5	55.3
85°	8.1	17.3	76.1	103.8	76.1	34.6	48.4	47.3	46.1	47.3	32.3
87.5°	1.2	1.2	12.7	15.0	10.4	11.5	13.8	15.0	18.4	17.3	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453950

CATALOG NUMBER: GALN-SA5A-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5
2.5°	1440.0	1393.9	1308.6	1226.7	1165.6	1126.4	1075.7	1057.2	1030.7	1027.3	1014.6
5°	1502.3	1414.7	1265.9	1148.3	1053.8	982.3	920.0	868.2	826.7	817.4	822.0
7.5°	1591.1	1460.8	1253.2	1093.0	961.6	839.3	740.2	679.1	635.3	619.1	621.4
10°	1691.4	1521.9	1250.9	1034.2	833.6	683.7	575.3	521.1	495.8	486.5	476.2
12.5°	1810.1	1592.2	1245.2	943.1	692.9	545.3	468.1	435.8	411.6	404.7	404.7
15°	1943.9	1667.2	1217.5	830.1	562.6	450.8	398.9	373.6	365.5	358.6	358.6
17.5°	2083.4	1740.9	1159.9	690.6	466.9	386.2	354.0	339.0	327.4	319.4	319.4
20°	2242.5	1813.6	1067.6	567.2	394.3	344.7	319.4	302.1	292.8	285.9	283.6
22.5°	2393.5	1872.4	950.0	465.8	343.6	310.1	287.1	268.6	259.4	256.0	256.0
25°	2550.3	1908.1	808.2	385.1	313.6	281.3	256.0	241.0	232.9	230.6	229.4
27.5°	2702.5	1928.9	683.7	336.7	285.9	254.8	230.6	219.1	211.0	208.7	209.8
30°	2887.0	1932.3	562.6	302.1	261.7	229.4	207.5	197.2	192.5	190.2	189.1
32.5°	3073.7	1927.7	472.7	281.3	238.7	207.5	189.1	181.0	177.6	174.1	174.1
35°	3283.6	1903.5	402.4	260.6	216.8	189.1	172.9	166.0	161.4	158.0	156.8
37.5°	3544.1	1890.8	362.0	237.5	197.2	171.8	156.8	149.9	146.4	141.8	140.7
40°	3954.6	1947.3	349.3	216.8	177.6	155.6	141.8	133.7	129.1	124.5	123.4
42.5°	4466.5	2046.5	328.6	196.0	160.3	140.7	126.8	117.6	109.5	103.8	101.5
45°	5129.4	2176.8	296.3	174.1	145.3	124.5	111.8	100.3	89.9	85.3	84.2
47.5°	5824.7	2302.4	267.5	156.8	129.1	110.7	96.8	84.2	74.9	71.5	70.3
50°	6251.3	2327.8	249.0	137.2	113.0	95.7	81.9	70.3	64.6	61.1	61.1
52.5°	6446.1	2287.4	223.7	119.9	98.0	84.2	70.3	61.1	57.6	55.3	54.2
55°	6582.1	2225.2	190.2	103.8	84.2	71.5	62.3	55.3	50.7	48.4	47.3
57°	6661.7	2141.0	164.9	91.1	72.6	62.3	55.3	49.6	45.0	40.4	40.4
57.5°	6665.2	2108.7	158.0	89.9	69.2	60.0	54.2	48.4	42.7	38.0	36.9
60°	6562.5	1887.4	126.8	76.1	55.3	50.7	45.0	38.0	30.0	25.4	24.2
62.5°	6232.8	1606.0	104.9	64.6	45.0	39.2	32.3	28.8	20.8	15.0	15.0
65°	5733.6	1302.8	89.9	51.9	36.9	28.8	21.9	20.8	12.7	6.9	5.8
67.5°	5011.8	1014.6	76.1	42.7	31.1	20.8	15.0	13.8	6.9	2.3	0.0
70°	3818.5	691.8	63.4	34.6	23.1	15.0	10.4	8.1	4.6	1.2	0.0
72.5°	2201.0	380.5	53.0	26.5	17.3	11.5	8.1	4.6	4.6	0.0	0.0
75°	786.3	163.7	40.4	19.6	13.8	9.2	5.8	2.3	3.5	1.2	0.0
77.5°	250.2	87.6	26.5	15.0	11.5	6.9	4.6	2.3	2.3	1.2	0.0
80°	73.8	46.1	16.1	12.7	8.1	5.8	3.5	1.2	2.3	1.2	0.0
82.5°	40.4	23.1	12.7	9.2	8.1	4.6	3.5	1.2	1.2	1.2	0.0
85°	20.8	13.8	10.4	9.2	8.1	4.6	3.5	1.2	0.0	1.2	1.2
87.5°	11.5	10.4	10.4	9.2	8.1	5.8	3.5	1.2	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)