

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: P529595

Luminaire Tested: **GALN-SA4D-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16643 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

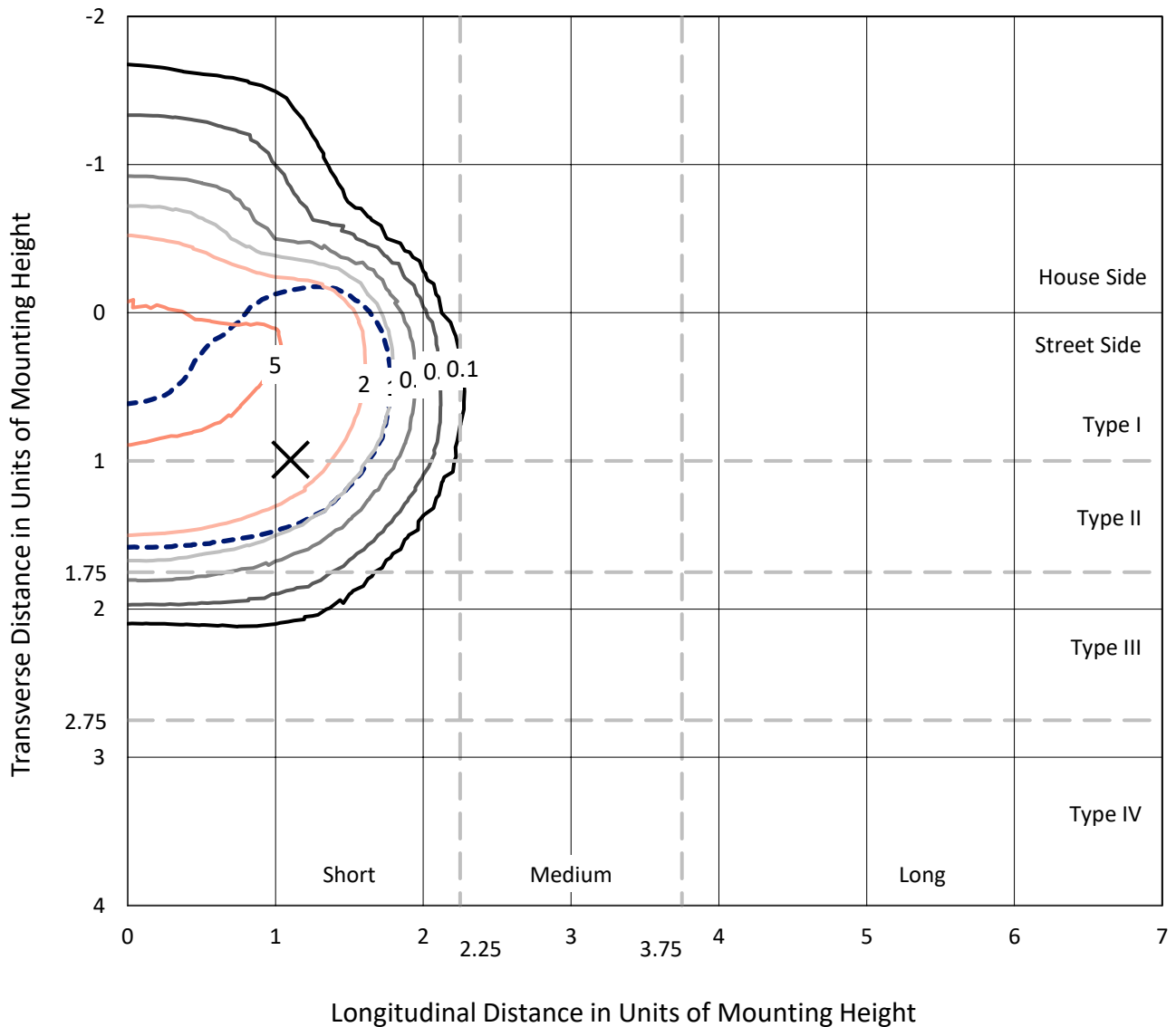
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

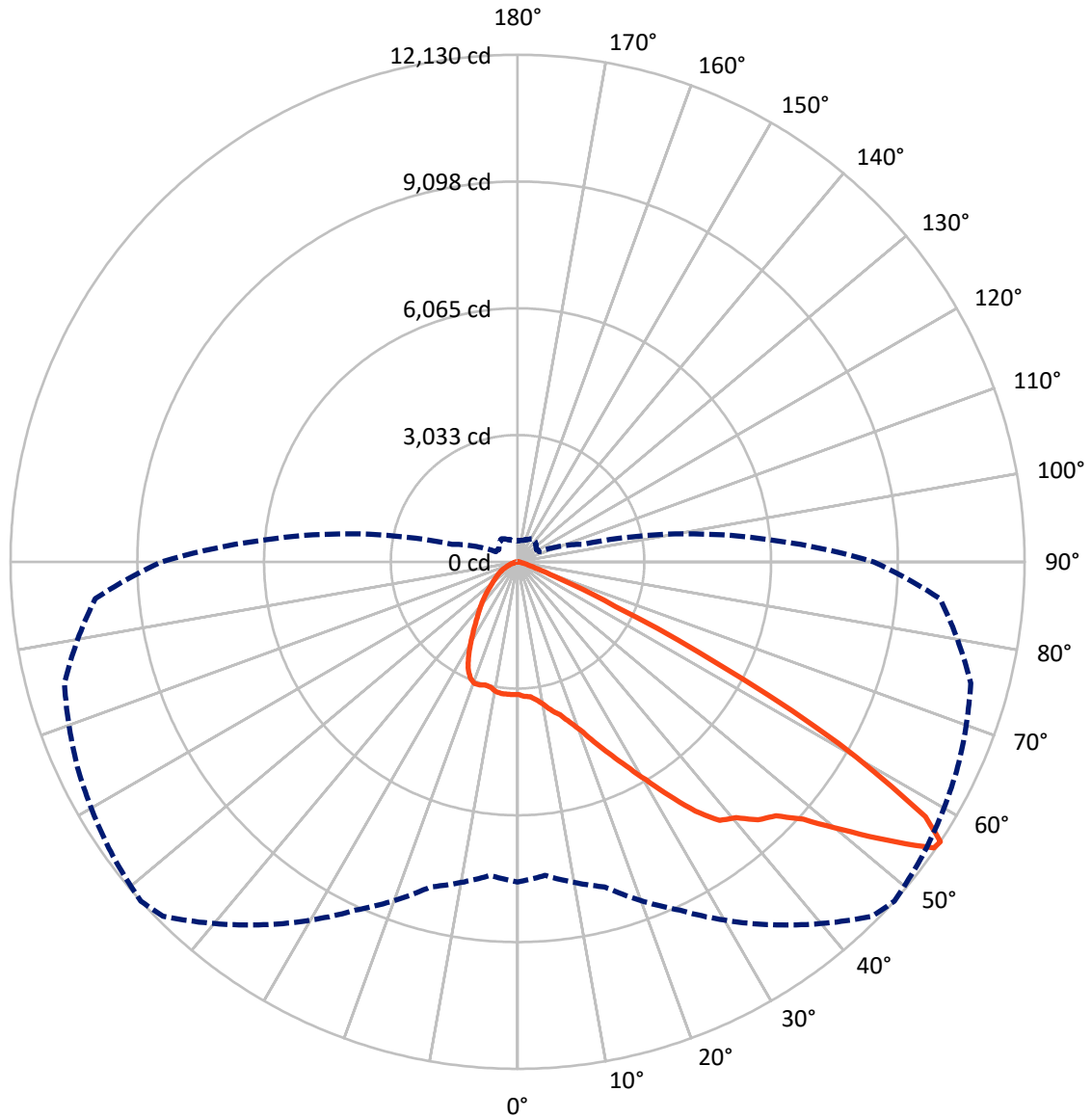
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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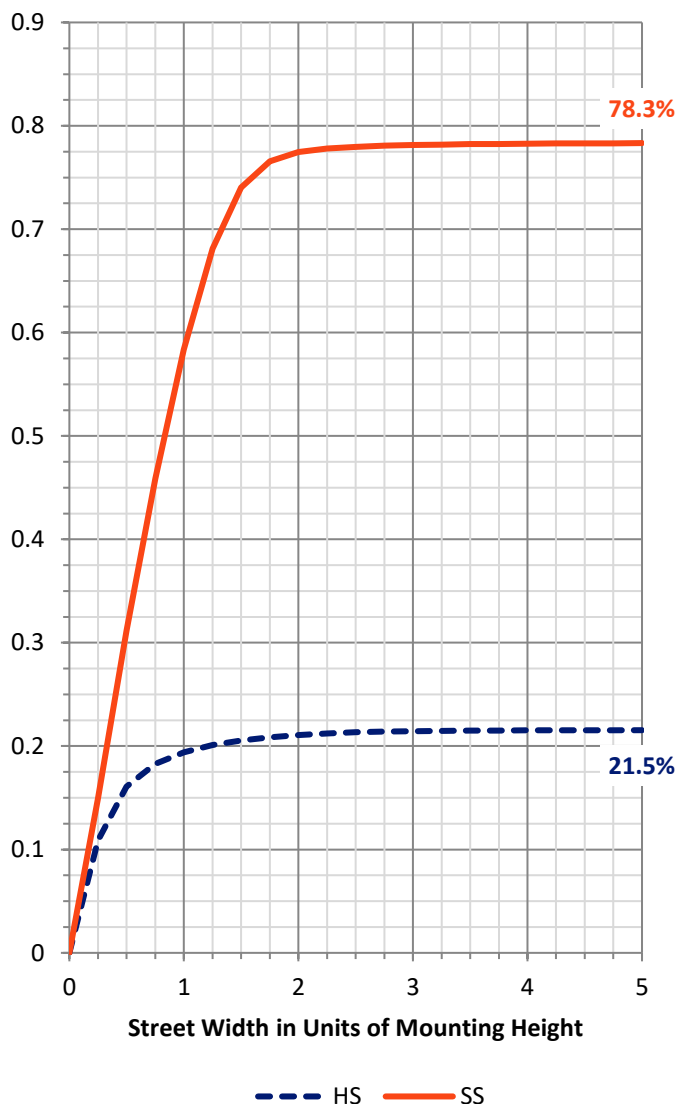
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3619.5	0.0	3619.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13023.5	0.0	13023.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	16643.0	0.0	16643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.6	1.9
10°-20°	989.6	5.9
20°-30°	1794.9	10.8
30°-40°	2819.5	16.9
40°-50°	4113.1	24.7
50°-60°	4955.5	29.8
60°-70°	1450.9	8.7
70°-80°	184.1	1.1
80°-90°	25.8	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°	16643.0	100.0
0°-180°	16643.0	100.0

Coefficient of Utilization



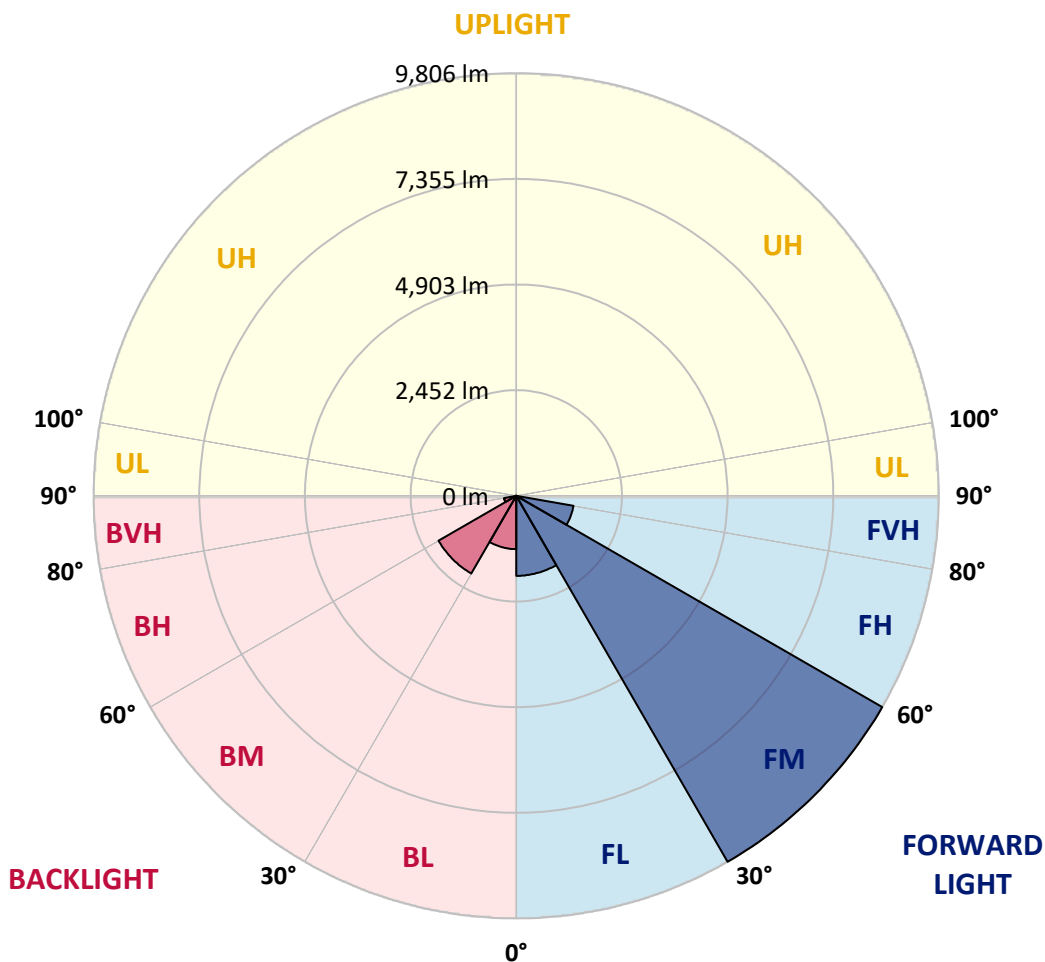
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1857.0	11.2			
FM (30°-60°)	9806.1	58.9			
FH (60°-80°)	1347.4	8.1			G1/1800
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	1237.1	7.4	B3/2500		
BM (30°-60°)	2081.9	12.5	B2/2500		
BH (60°-80°)	287.6	1.7	B1/500		G1/500
BVH (80°-90°)	12.8	0.1			G1/100
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°	48°	55°	65°	75°	85°
0°	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8
2.5°	3236.4	3221.2	3221.2	3197.0	3224.3	3212.2	3221.2	3190.9	3221.2	3175.8	3212.2
5°	3251.5	3254.6	3242.5	3257.6	3257.6	3275.8	3245.5	3272.8	3287.9	3254.6	3239.4
7.5°	3330.3	3336.4	3333.4	3321.2	3345.5	3342.5	3339.4	3318.2	3324.3	3312.2	3294.0
10°	3484.9	3481.9	3497.0	3466.7	3448.5	3469.7	3475.8	3442.5	3418.2	3409.1	3351.5
12.5°	3709.1	3672.8	3651.6	3621.2	3630.3	3600.0	3654.6	3597.0	3584.9	3530.3	3472.8
15°	3890.9	3884.9	3887.9	3839.4	3784.9	3797.0	3797.0	3766.7	3748.5	3681.9	3600.0
17.5°	4263.7	4136.4	4163.7	4103.1	4057.6	4054.6	4027.3	4033.4	3984.9	3845.5	3721.2
20°	4554.6	4500.0	4457.6	4354.6	4284.9	4306.1	4294.0	4263.7	4248.5	4066.7	3890.9
22.5°	4815.2	4833.4	4763.7	4736.4	4639.4	4648.5	4672.8	4645.5	4530.3	4342.5	4081.9
25°	5181.9	5160.7	5066.7	5033.4	4942.5	4975.8	5069.7	5048.5	4975.8	4636.4	4230.3
27.5°	5615.2	5542.5	5560.7	5409.1	5321.3	5415.2	5527.3	5633.4	5427.3	4981.9	4406.1
30°	5921.3	5845.5	5839.5	5833.4	5812.2	5921.3	6051.6	6148.5	5981.9	5327.3	4697.0
32.5°	6072.8	6091.0	6142.5	6124.3	6309.2	6533.4	6669.8	6809.2	6600.1	5891.0	5081.9
35°	6475.8	6360.7	6475.8	6487.9	6678.9	7154.6	7327.3	7660.7	7609.2	6687.9	5551.6
37.5°	6712.2	6703.1	6718.3	6833.4	7018.3	7606.1	7851.6	8109.2	8012.2	7166.7	6136.4
40°	7103.1	7127.3	7124.3	7212.2	7415.2	7945.5	8045.5	8254.6	8263.7	7830.4	6997.0
42.5°	7730.4	7633.4	7569.8	7660.7	7945.5	8239.5	8439.5	8397.1	8697.1	8636.5	8103.1
45°	8294.0	8351.6	8257.7	8409.2	8512.2	8669.8	8663.7	8754.6	9136.5	9424.3	8936.5
47.5°	8821.3	8857.7	8903.1	9006.2	9230.4	9254.6	9203.1	9163.7	9691.0	9988.0	9581.9
50°	9136.5	9169.8	9381.9	9566.8	9984.9	10039.5	10069.8	9969.8	10327.4	10360.7	10191.0
52.5°	9051.6	9088.0	9384.9	9994.0	10660.7	11160.7	11069.8	10900.1	10878.9	11009.2	10754.7
55°	8300.1	8266.8	8675.8	9624.3	10872.8	12072.9	12085.0	11906.2	11563.8	11475.9	10669.8
56°	7660.7	7530.4	8051.6	9197.1	10600.1	11994.1	12130.4	11939.5	11618.3	11224.4	10145.6
57.5°	6275.8	6400.1	6918.3	7866.7	9657.7	11427.4	11506.2	11460.7	11218.3	10557.7	8927.4
60°	3460.6	3678.8	4136.4	5297.0	6875.8	8769.8	8833.4	9203.1	9248.6	8084.9	6142.5
62.5°	1469.7	1445.5	1921.2	2775.8	3915.2	5294.0	5412.2	5791.0	5860.7	4660.7	3081.8
65°	597.0	630.3	869.7	1397.0	2069.7	2412.1	2578.8	2703.1	2933.4	1924.3	1136.4
67.5°	393.9	390.9	512.1	797.0	1115.2	1075.8	1075.8	1136.4	1051.5	784.9	490.9
70°	281.8	290.9	366.7	551.5	693.9	515.2	493.9	472.7	536.4	518.2	397.0
72.5°	184.9	197.0	245.5	330.3	360.6	281.8	281.8	339.4	442.4	418.2	324.2
75°	121.2	124.2	151.5	190.9	178.8	145.5	160.6	227.3	321.2	309.1	230.3
77.5°	81.8	84.8	103.0	124.2	100.0	81.8	87.9	115.2	157.6	157.6	121.2
80°	30.3	33.3	42.4	39.4	45.5	57.6	63.6	78.8	93.9	93.9	81.8
82.5°	0.0	3.0	9.1	21.2	33.3	45.5	51.5	60.6	69.7	78.8	75.8
85°	0.0	3.0	9.1	15.2	24.2	27.3	30.3	21.2	18.2	18.2	15.2
87.5°	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	6.1	3.0	3.0
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°	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8
2.5°	3178.8	3175.8	3175.8	3166.7	3184.9	3175.8	3181.9	3178.8	3139.4	3169.7	3148.5
5°	3212.2	3233.4	3200.0	3194.0	3169.7	3178.8	3178.8	3148.5	3175.8	3172.8	3166.7
7.5°	3297.0	3260.6	3224.3	3187.9	3181.9	3172.8	3139.4	3127.3	3148.5	3124.3	3160.6
10°	3333.4	3339.4	3284.9	3236.4	3190.9	3127.3	3081.8	3054.6	3021.2	3057.6	3078.8
12.5°	3500.0	3439.4	3345.5	3269.7	3115.2	3051.5	3006.1	2994.0	3051.5	3063.7	3042.5
15°	3557.6	3548.5	3427.3	3257.6	3097.0	3021.2	3030.3	3006.1	3012.2	2981.8	2987.9
17.5°	3675.8	3572.8	3430.3	3218.2	3094.0	3075.8	3021.2	2924.3	2869.7	2845.5	2866.7
20°	3806.1	3706.1	3500.0	3233.4	3121.2	3072.8	2894.0	2775.8	2663.7	2603.1	2606.1
22.5°	3921.3	3797.0	3469.7	3239.4	3145.5	2945.5	2730.3	2497.0	2357.6	2263.7	2266.7
25°	4060.6	3884.9	3481.9	3251.5	3081.8	2742.5	2433.4	2206.1	2039.4	1975.8	1997.0
27.5°	4139.4	3939.4	3548.5	3278.8	2915.2	2454.6	2121.2	1909.1	1812.1	1781.8	1778.8
30°	4375.8	4060.6	3630.3	3224.3	2636.4	2145.5	1836.4	1706.1	1612.1	1584.9	1590.9
32.5°	4727.3	4281.9	3736.4	3081.8	2351.5	1869.7	1651.5	1554.6	1466.7	1415.2	1409.1
35°	5021.3	4660.7	3848.5	2860.6	2021.2	1657.6	1521.2	1400.0	1266.7	1209.1	1194.0
37.5°	5581.9	5087.9	3824.3	2527.3	1706.1	1500.0	1381.8	1233.3	1118.2	1039.4	1030.3
40°	6327.3	5587.9	3706.1	2121.2	1472.7	1360.6	1233.3	1090.9	948.5	881.8	875.8
42.5°	7233.4	6200.1	3490.9	1709.1	1239.4	1221.2	1106.1	942.4	815.2	766.7	769.7
45°	7969.8	6724.3	3272.8	1372.7	1066.7	1084.9	984.9	830.3	742.4	703.0	703.0
47.5°	8624.3	7078.9	3036.4	1133.3	906.1	948.5	860.6	769.7	693.9	663.6	657.6
50°	9254.6	7439.5	2800.0	918.2	772.7	815.2	806.1	733.3	672.7	636.4	639.4
52.5°	9648.6	7497.0	2500.0	751.5	675.8	724.2	754.6	687.9	621.2	600.0	593.9
55°	9166.8	6754.6	1939.4	618.2	572.7	636.4	693.9	618.2	566.7	530.3	527.3
56°	8518.3	6039.5	1621.2	569.7	542.4	612.1	672.7	590.9	533.3	512.1	497.0
57.5°	7212.2	4942.5	1197.0	506.1	503.0	569.7	639.4	563.6	497.0	478.8	478.8
60°	4497.0	2781.8	724.2	424.2	436.4	506.1	575.8	503.0	442.4	442.4	451.5
62.5°	2048.5	1157.6	439.4	360.6	375.8	436.4	512.1	454.6	421.2	454.6	460.6
65°	697.0	500.0	318.2	287.9	297.0	360.6	439.4	460.6	457.6	478.8	490.9
67.5°	390.9	321.2	266.7	239.4	233.3	266.7	360.6	460.6	442.4	433.3	439.4
70°	330.3	272.7	236.4	212.1	203.0	215.2	278.8	348.5	312.1	303.0	297.0
72.5°	266.7	227.3	206.1	190.9	163.6	139.4	127.3	133.3	148.5	157.6	172.7
75°	187.9	172.7	172.7	154.5	118.2	87.9	69.7	57.6	39.4	27.3	30.3
77.5°	106.1	106.1	109.1	93.9	75.8	57.6	42.4	30.3	15.2	6.1	3.0
80°	72.7	78.8	84.8	75.8	63.6	51.5	36.4	21.2	9.1	0.0	0.0
82.5°	72.7	81.8	87.9	75.8	63.6	48.5	36.4	21.2	9.1	3.0	0.0
85°	15.2	18.2	21.2	24.2	36.4	36.4	27.3	18.2	9.1	3.0	0.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	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)