

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: P651528

Luminaire Tested: **GALN-SA7D-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651528
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-SA7D-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 36279.9 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

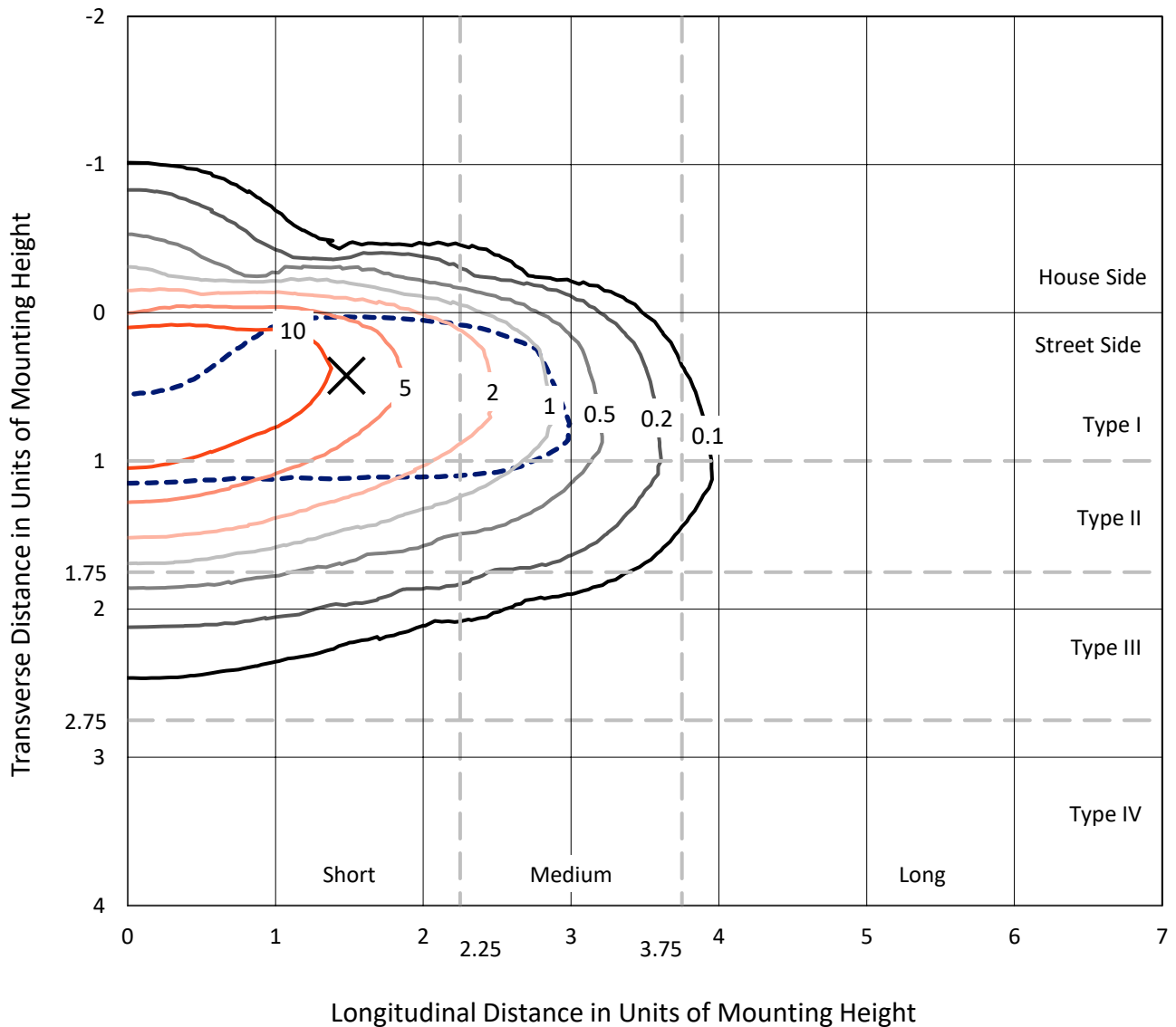
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

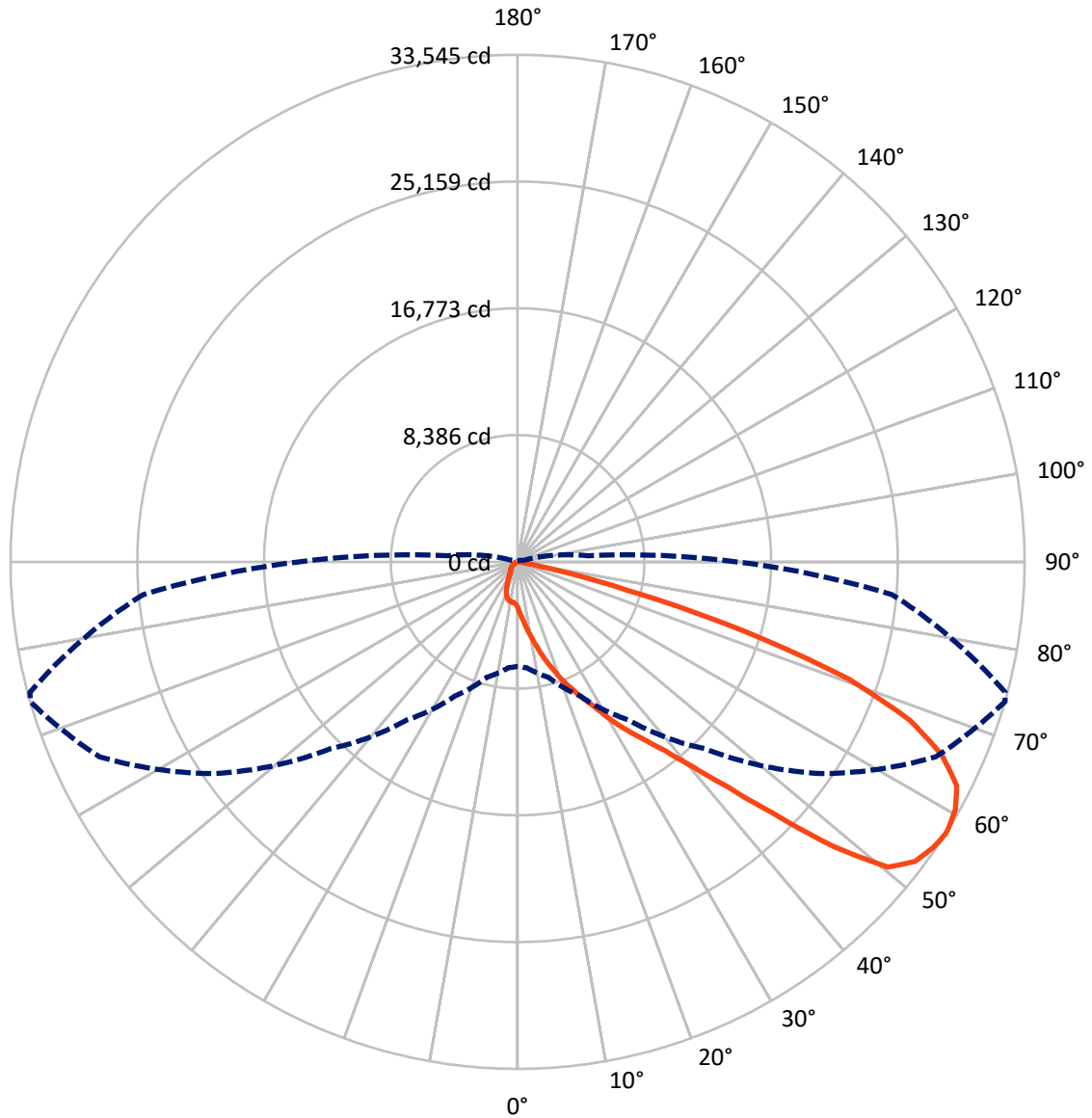
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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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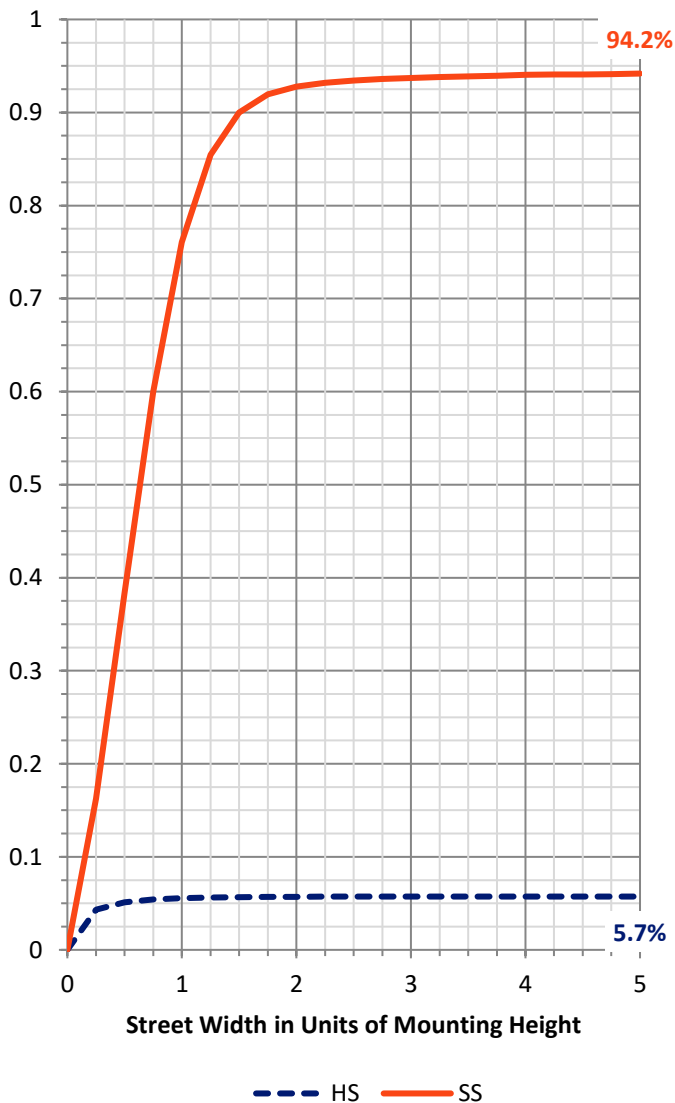
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2092.5	0.0	2092.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	34187.4	0.0	34187.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	36279.9	0.0	36279.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.7	1.0
10°-20°	1445.5	4.0
20°-30°	3093.1	8.5
30°-40°	5685.1	15.7
40°-50°	8715.4	24.0
50°-60°	9219.7	25.4
60°-70°	6020.7	16.6
70°-80°	1645.1	4.5
80°-90°	88.6	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°	36279.9	100.0
0°-180°	36279.9	100.0

Coefficient of Utilization

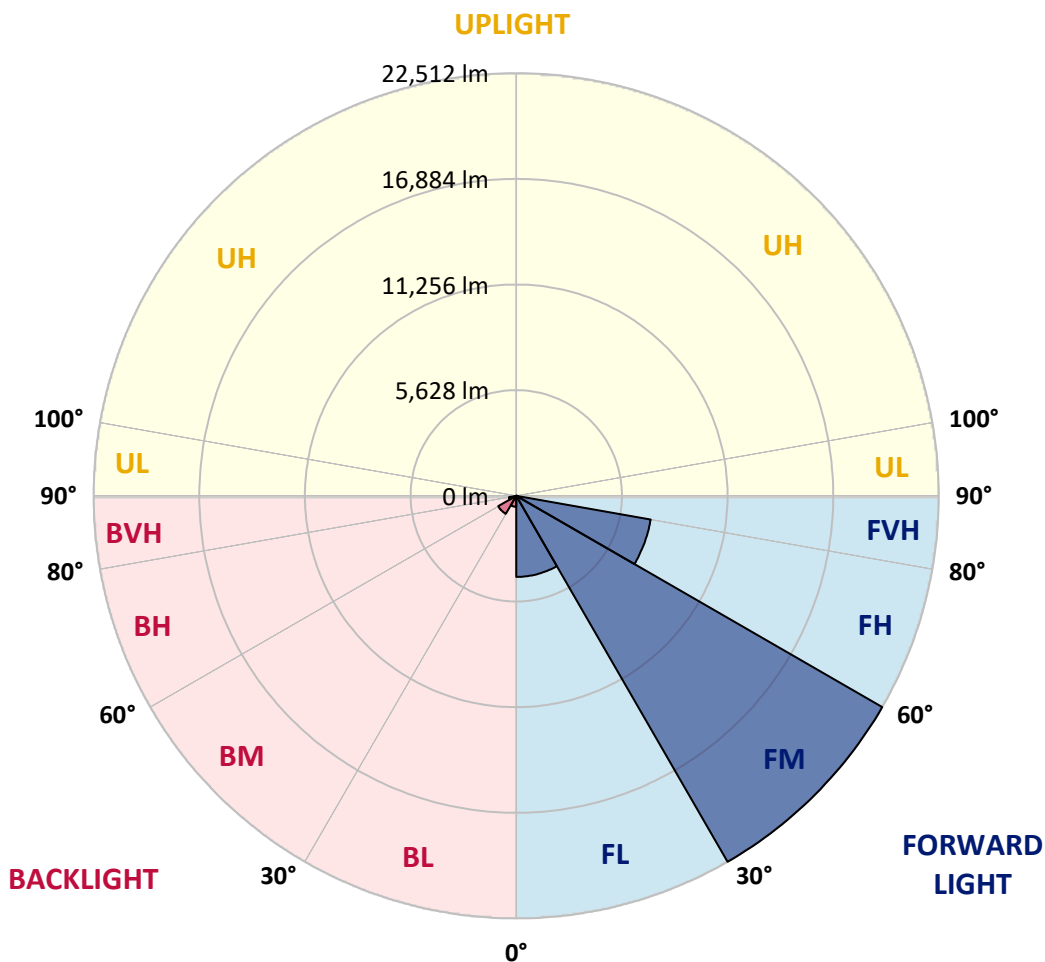


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4320.9	11.9			
FM (30°-60°)	22512.3	62.1			
FH (60°-80°)	7272.9	20.0			G3/7500
FVH (80°-90°)	81.2	0.2			G1/100
BL (0°-30°)	584.5	1.6	B2/1000		
BM (30°-60°)	1107.8	3.1	B2/2500		
BH (60°-80°)	392.9	1.1	B1/500		G1/500
BVH (80°-90°)	7.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4
2.5°	4446.1	4406.1	4325.9	4298.4	4180.6	3997.8	3837.5	3622.0	3451.7	3434.1	3228.8
5°	5954.0	5863.9	5826.3	5646.0	5362.9	5097.4	4641.5	4295.8	3897.5	3867.5	3454.2
7.5°	7406.9	7281.6	7244.0	7073.7	6743.1	6324.7	5733.6	5104.9	4473.7	4416.1	3757.3
10°	8458.9	8476.4	8408.8	8296.1	8028.1	7602.2	6873.3	6014.2	5115.0	5042.3	4097.9
12.5°	9212.9	9210.4	9222.9	9220.4	9077.6	8754.5	7988.0	6998.5	5821.3	5678.5	4488.7
15°	9703.8	9711.4	9748.9	9879.1	9894.2	9693.8	9055.0	7940.4	6640.4	6462.5	4912.0
17.5°	10199.8	10252.4	10312.5	10435.2	10545.5	10465.3	10014.5	8922.3	7381.8	7249.1	5365.4
20°	11018.9	11091.5	11056.5	11131.6	11189.2	11196.7	10848.6	9829.1	8281.1	8058.1	5883.9
22.5°	12328.9	12326.5	12236.2	12101.0	11988.3	11983.2	11667.6	10760.8	9097.7	8882.2	6404.9
25°	13984.7	13992.1	13816.8	13431.0	13150.5	12807.3	12444.1	11577.5	9971.8	9706.3	6953.5
27.5°	15883.3	15835.7	15570.2	15039.2	14483.1	13896.9	13373.4	12526.8	10898.6	10678.2	7582.2
30°	17589.1	17571.6	17261.0	16612.2	15880.8	15292.2	14533.2	13716.6	12098.5	11827.9	8286.0
32.5°	19177.2	19202.2	18771.5	18100.1	17393.7	16715.0	15913.4	14853.8	13275.8	12892.5	9052.5
35°	20417.1	20442.2	19996.3	19437.7	18711.3	18147.7	17383.7	16066.1	14438.0	14114.9	9934.3
37.5°	21078.4	21111.0	20852.9	20432.1	19978.8	19695.7	18984.3	17626.7	15850.7	15655.4	10976.3
40°	21203.6	21241.2	21128.5	21015.7	20990.7	21193.6	20985.7	19465.3	17809.5	17504.0	12529.3
42.5°	20827.9	20878.0	20928.1	21178.6	21689.6	22433.5	23157.4	21960.1	20331.9	19921.2	14428.0
45°	19841.0	19836.0	20033.9	20682.6	21827.3	23415.5	25426.8	25083.7	23768.6	23280.1	17110.7
47.5°	18152.7	18127.7	18556.0	19480.3	21263.8	23595.8	27277.9	28876.0	28154.6	27703.7	19993.8
50°	15580.2	15703.0	16376.8	17666.8	19863.5	23049.7	27849.0	31363.3	31754.1	31275.7	22323.3
52.5°	12566.9	12561.8	13618.9	15369.8	17789.5	21847.4	27450.7	31814.2	32923.9	32558.1	23470.5
55°	9300.5	9365.6	10465.3	12231.3	15096.8	19653.2	26150.7	31350.8	33369.7	33111.8	24227.0
57°	6918.4	7033.6	7915.3	9783.9	12752.3	17481.4	24419.9	30521.7	33545.1	33404.8	24855.8
57.5°	6457.5	6462.5	7321.7	9020.0	12065.9	16647.3	23923.9	30176.0	33540.1	33462.4	24958.4
60°	3975.2	4100.5	4694.1	6096.8	8832.1	12992.7	20600.0	28189.6	33279.5	33392.2	25396.8
62.5°	2379.6	2432.3	2817.9	3674.7	5693.6	9483.4	16857.7	25647.2	32600.8	32943.9	25366.7
65°	1530.5	1543.0	1718.3	2224.3	3559.4	6409.9	12990.2	22288.3	30844.9	31476.0	24374.8
67.5°	1182.3	1202.3	1272.4	1460.3	2064.0	3992.7	9187.8	18703.8	28004.3	28818.4	21970.1
70°	1049.6	1059.6	1084.6	1144.7	1365.1	2254.4	5716.1	14610.9	23222.5	23453.0	17193.3
72.5°	856.6	884.2	961.9	981.9	1082.1	1407.7	3181.2	9806.6	15602.7	15660.3	9618.7
75°	663.8	668.8	784.0	841.7	911.7	969.4	1420.3	4944.6	7494.6	7093.8	3707.2
77.5°	495.9	518.5	571.1	643.8	743.9	693.8	636.2	1863.7	2327.0	2284.4	1077.1
80°	318.2	330.7	398.3	483.4	578.6	453.4	358.2	546.1	511.0	526.0	258.0
82.5°	160.3	162.8	255.5	393.3	368.2	227.9	225.5	222.9	190.4	187.9	120.3
85°	17.5	37.6	165.3	225.5	165.3	75.2	105.2	102.7	100.2	102.7	70.1
87.5°	2.5	2.5	27.6	32.5	22.5	25.1	30.0	32.5	40.1	37.6	30.0
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°	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4
2.5°	3128.6	3028.4	2843.0	2665.1	2532.4	2447.2	2337.1	2296.9	2239.3	2231.8	2204.3
5°	3263.8	3073.4	2750.3	2494.8	2289.5	2134.1	1998.9	1886.2	1796.0	1775.9	1785.9
7.5°	3456.7	3173.7	2722.8	2374.6	2089.0	1823.5	1608.2	1475.4	1380.2	1345.1	1350.1
10°	3674.7	3306.4	2717.8	2246.9	1811.0	1485.4	1249.9	1132.2	1077.1	1057.1	1034.5
12.5°	3932.6	3459.2	2705.2	2049.0	1505.4	1184.8	1016.9	946.8	894.2	879.2	879.2
15°	4223.2	3622.0	2645.1	1803.5	1222.4	979.4	866.7	811.6	794.1	779.0	779.0
17.5°	4526.3	3782.3	2519.9	1500.4	1014.5	839.1	769.0	736.5	711.4	693.8	693.8
20°	4871.9	3940.2	2319.5	1232.4	856.6	749.0	693.8	656.2	636.2	621.2	616.2
22.5°	5200.1	4067.9	2064.0	1012.0	746.5	673.8	623.7	583.7	563.6	556.1	556.1
25°	5540.8	4145.5	1755.9	836.6	681.3	611.2	556.1	523.5	505.9	501.0	498.5
27.5°	5871.4	4190.6	1485.4	731.4	621.2	553.5	501.0	475.9	458.4	453.4	455.9
30°	6272.2	4198.1	1222.4	656.2	568.6	498.5	450.9	428.3	418.3	413.3	410.8
32.5°	6678.0	4188.1	1027.0	611.2	518.5	450.9	410.8	393.3	385.8	378.2	378.2
35°	7133.9	4135.5	874.2	566.1	470.9	410.8	375.8	360.7	350.7	343.1	340.7
37.5°	7699.9	4107.9	786.5	516.0	428.3	373.2	340.7	325.6	318.2	308.1	305.6
40°	8591.7	4230.7	759.0	470.9	385.8	338.2	308.1	290.6	280.6	270.5	268.0
42.5°	9703.8	4446.1	713.9	425.8	348.2	305.6	275.5	255.5	238.0	225.5	220.4
45°	11144.1	4729.2	643.8	378.2	315.6	270.5	243.0	217.9	195.4	185.4	182.8
47.5°	12654.5	5002.2	581.1	340.7	280.6	240.4	210.4	182.8	162.8	155.3	152.8
50°	13581.3	5057.3	541.0	298.1	245.5	207.9	177.9	152.8	140.3	132.8	132.8
52.5°	14004.7	4969.6	485.9	260.5	212.9	182.8	152.8	132.8	125.2	120.3	117.7
55°	14300.3	4834.4	413.3	225.5	182.8	155.3	135.2	120.3	110.3	105.2	102.7
57°	14473.1	4651.5	358.2	197.9	157.8	135.2	120.3	107.7	97.7	87.6	87.6
57.5°	14480.6	4581.3	343.1	195.4	150.3	130.3	117.7	105.2	92.7	82.7	80.1
60°	14257.6	4100.5	275.5	165.3	120.3	110.3	97.7	82.7	65.1	55.1	52.6
62.5°	13541.3	3489.3	227.9	140.3	97.7	85.2	70.1	62.7	45.1	32.5	32.5
65°	12456.6	2830.5	195.4	112.7	80.1	62.7	47.6	45.1	27.6	15.1	12.5
67.5°	10888.6	2204.3	165.3	92.7	67.6	45.1	32.5	30.0	15.1	5.0	0.0
70°	8296.1	1503.0	137.8	75.2	50.1	32.5	22.5	17.5	10.0	2.5	0.0
72.5°	4781.8	826.6	115.2	57.6	37.6	25.1	17.5	10.0	10.0	0.0	0.0
75°	1708.3	355.7	87.6	42.6	30.0	20.0	12.5	5.0	7.5	2.5	0.0
77.5°	543.5	190.4	57.6	32.5	25.1	15.1	10.0	5.0	5.0	2.5	0.0
80°	160.3	100.2	35.1	27.6	17.5	12.5	7.5	2.5	5.0	2.5	0.0
82.5°	87.6	50.1	27.6	20.0	17.5	10.0	7.5	2.5	2.5	2.5	0.0
85°	45.1	30.0	22.5	20.0	17.5	10.0	7.5	2.5	0.0	2.5	2.5
87.5°	25.1	22.5	22.5	20.0	17.5	12.5	7.5	2.5	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)