

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: P532506

Luminaire Tested: **GALN-SA7D-760-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-760-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47349 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

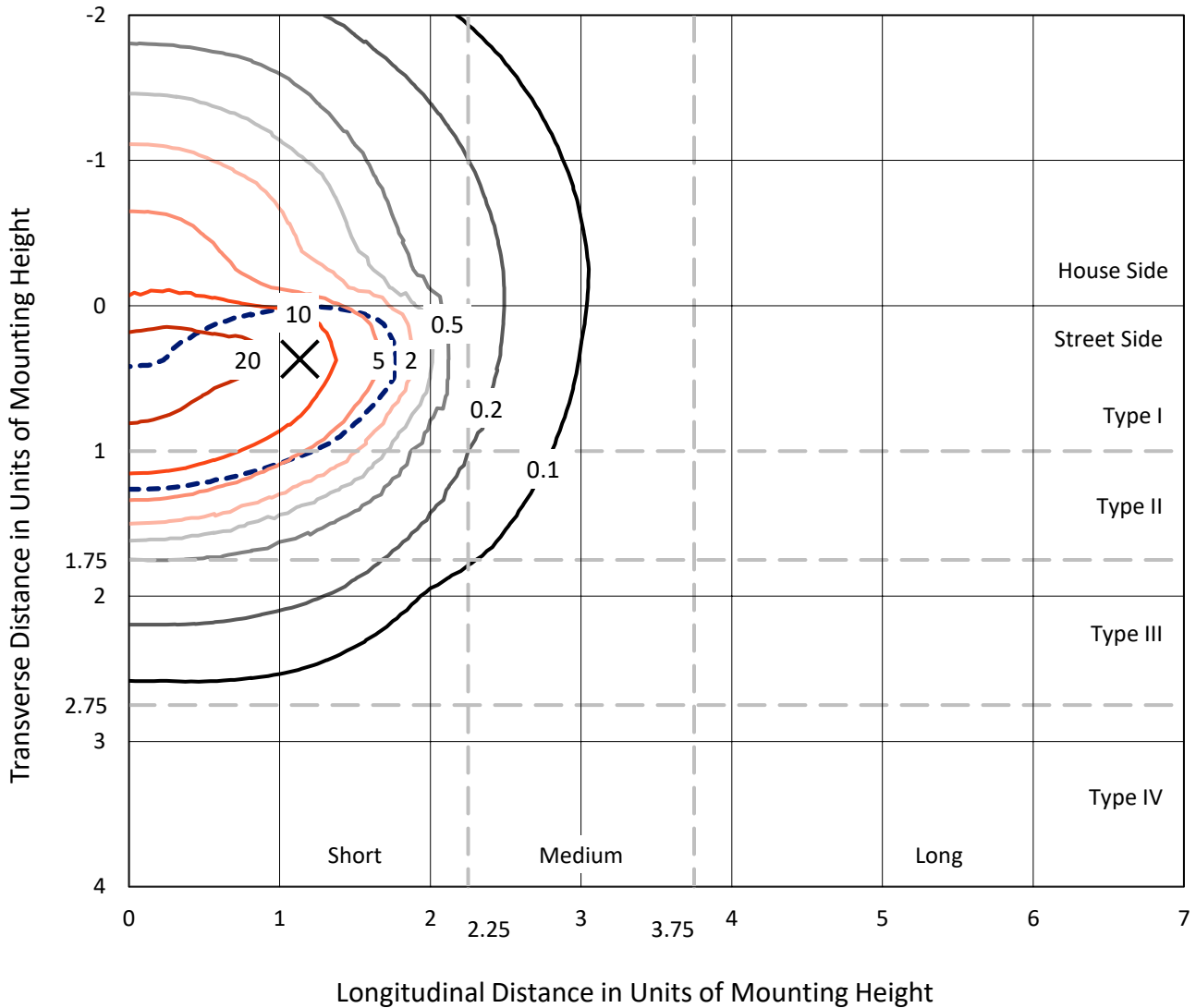
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

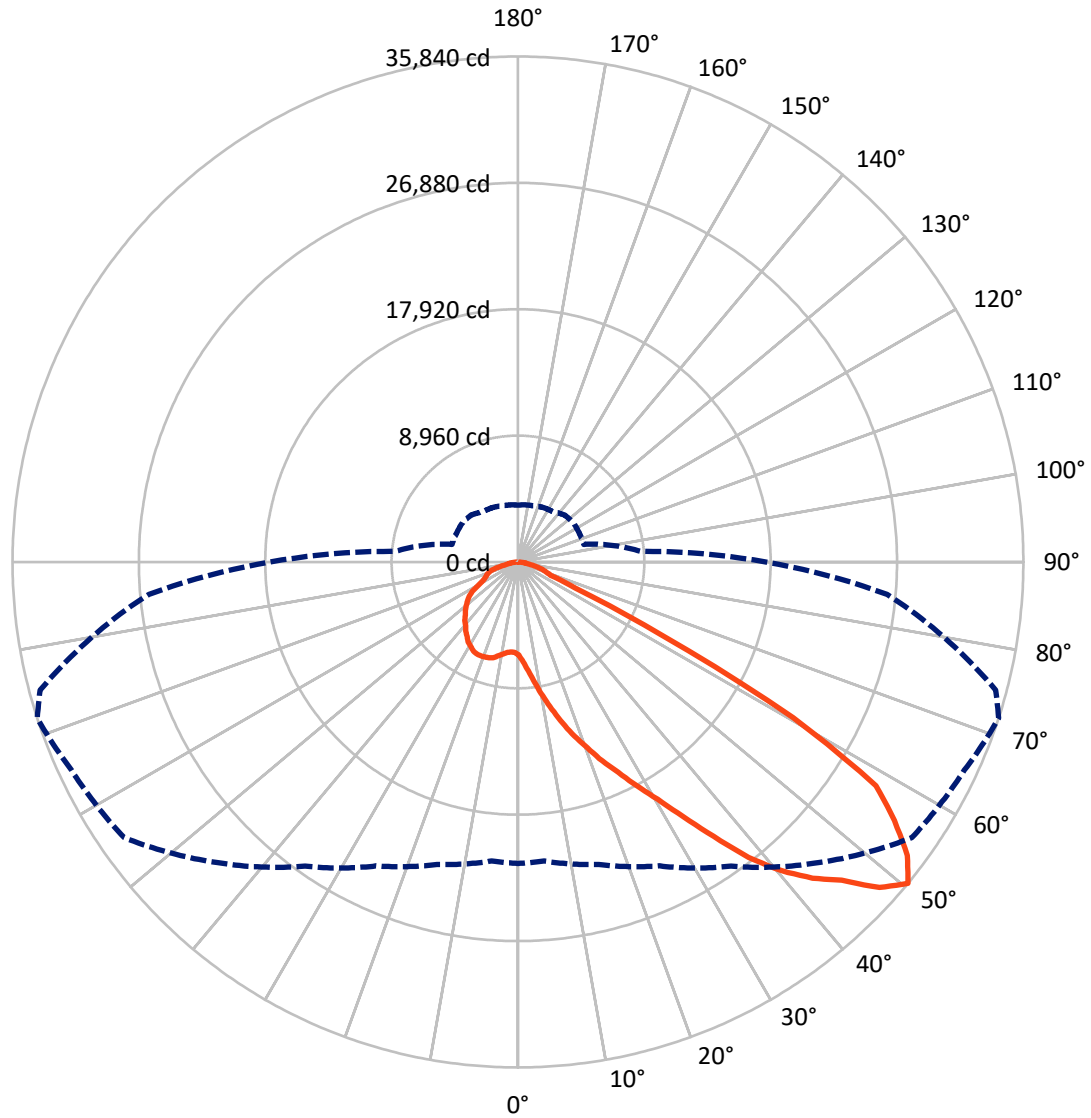
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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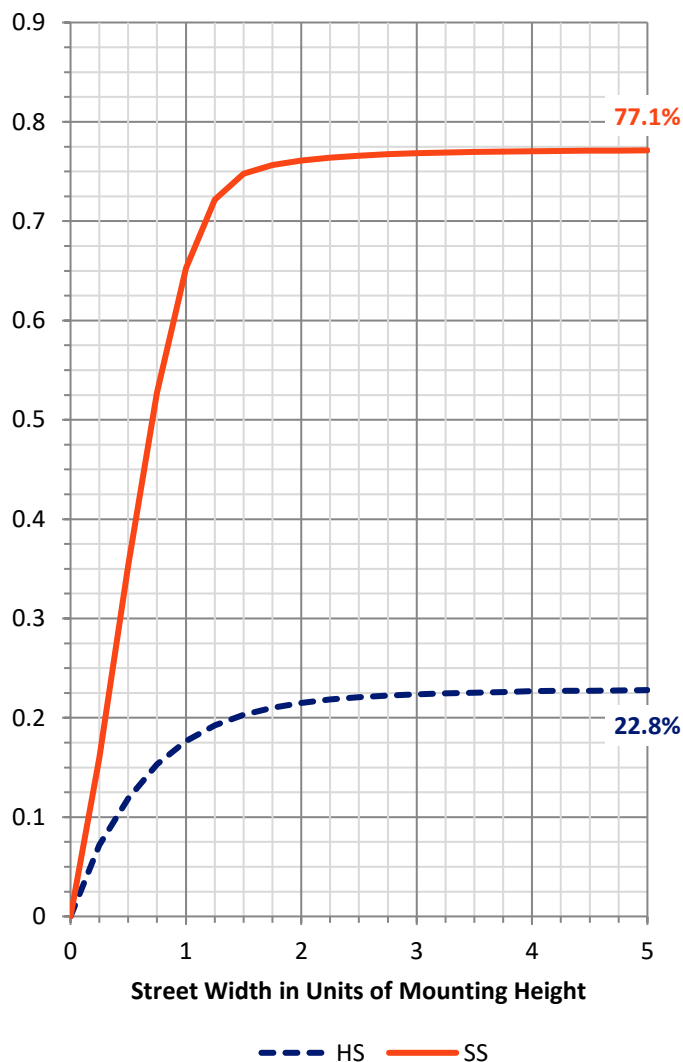
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10847.9	0.0	10847.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	36501.1	0.0	36501.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	47349.0	0.0	47349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.3	1.6
10°-20°	2898.4	6.1
20°-30°	5619.8	11.9
30°-40°	9310.0	19.7
40°-50°	13026.7	27.5
50°-60°	10989.7	23.2
60°-70°	3349.6	7.1
70°-80°	1175.2	2.5
80°-90°	204.3	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°	47349.0	100.0
0°-180°	47349.0	100.0

Coefficient of Utilization

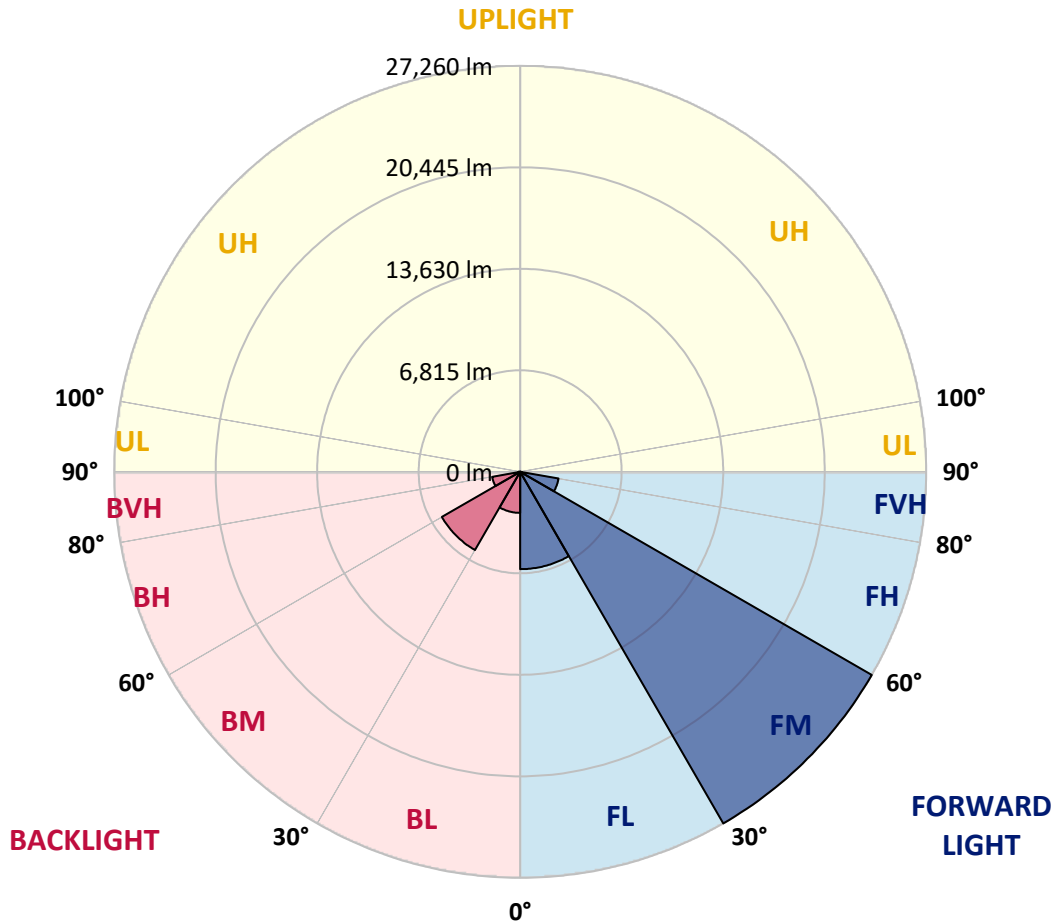


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6535.9	13.8			
FM (30°-60°)	27260.1	57.6			
FH (60°-80°)	2613.6	5.5			G2/5000
FVH (80°-90°)	91.5	0.2			G1/100
BL (0°-30°)	2757.6	5.8	B4/5000		
BM (30°-60°)	6066.3	12.8	B4/8500		
BH (60°-80°)	1911.2	4.0	B3/2500		G3/2500
BVH (80°-90°)	112.8	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4
2.5°	8478.0	8425.3	8267.1	8214.3	8026.8	7687.0	7569.8	7224.2	7077.7	6942.9	6784.7
5°	10722.0	10475.9	10458.3	10159.5	9726.0	9474.0	8724.1	8220.2	7757.3	7523.0	7089.4
7.5°	12151.6	12157.4	12157.4	11911.4	11565.7	10927.1	10253.3	9345.1	8647.9	8302.2	7564.0
10°	13510.9	13393.7	13329.2	13305.8	13071.4	12450.4	11729.7	10604.8	9649.8	9245.5	7921.4
12.5°	14471.8	14372.1	14518.6	14442.5	14272.5	13868.3	13188.6	11905.5	10710.3	10165.4	8495.6
15°	14928.8	14999.1	15116.2	15327.2	15251.0	15098.7	14348.7	13241.4	11852.8	11237.6	9005.3
17.5°	15631.8	15438.5	15579.1	15842.8	16053.7	15983.4	15555.7	14208.1	12983.6	12227.8	9690.8
20°	16124.0	16012.7	16083.0	16387.6	16545.8	16944.3	16721.6	15473.6	14067.5	13270.7	10499.3
22.5°	17530.2	17366.1	17137.6	17184.5	17243.1	17524.3	17577.0	16862.2	15327.2	14483.5	11266.9
25°	19264.4	19112.1	18842.6	18567.2	18397.3	18344.6	18526.2	17952.0	16534.1	15661.1	12093.0
27.5°	21174.5	20916.7	20746.7	20178.4	19721.4	19651.1	19563.2	19252.7	17963.7	17020.4	13024.6
30°	23031.8	22826.7	22598.2	21690.0	21215.5	21139.3	20705.7	20793.6	19516.4	18467.6	14079.2
32.5°	24437.9	24455.5	23934.0	23248.5	22803.3	22399.0	22240.8	22492.7	21508.4	20664.7	15256.9
35°	25574.6	25627.3	25129.3	24508.2	24027.8	24309.0	24238.7	24355.9	23887.2	22856.0	16627.9
37.5°	26681.9	26418.3	25885.1	25586.3	25334.4	25797.2	26394.8	26494.4	26582.3	25369.5	18221.5
40°	26863.6	26887.0	26576.5	26787.4	26471.0	27168.2	28556.8	28427.9	28785.3	27724.8	19949.9
42.5°	26605.8	26658.5	26781.5	27080.3	27842.0	28679.8	30742.2	30214.9	30648.5	29705.2	21631.5
45°	26183.9	25967.1	26119.5	27256.1	28574.4	30437.5	32740.1	32330.0	32189.4	31398.4	23635.2
47.5°	24168.4	24391.1	24865.6	26265.9	28246.3	30742.2	34158.0	34064.3	34486.1	33929.5	25457.4
50°	21373.7	21285.8	22199.8	23775.9	26330.4	30144.6	34081.9	34931.4	35839.6	35066.2	26271.8
52.5°	16006.8	16475.5	17260.6	19217.5	22861.9	26887.0	32417.9	33835.8	34574.0	34410.0	25615.6
55°	10118.5	10259.1	10733.7	13059.7	16340.8	21578.7	27789.3	31076.2	32394.5	33009.7	25012.1
57.5°	4915.7	4652.1	5232.1	7101.1	9438.9	14512.8	21432.3	27068.6	29933.7	31046.9	23699.7
60°	2566.2	2665.8	2894.4	3562.3	4880.6	7534.7	13358.5	18039.9	22416.6	24127.4	17963.7
62.5°	2126.8	2162.0	2314.3	2648.3	3245.9	4335.7	6819.9	8794.4	11430.9	12971.8	10218.1
65°	1804.6	1822.2	1986.2	2208.8	2589.7	3052.5	3509.5	3673.6	4447.0	4564.2	3632.6
67.5°	1505.8	1523.3	1699.1	1910.0	2156.1	2279.2	2396.3	2384.6	2472.5	2437.3	2431.5
70°	1160.1	1177.7	1359.3	1581.9	1705.0	1634.7	1997.9	2079.9	2115.1	2144.4	2191.3
72.5°	837.8	873.0	1013.6	1171.8	1107.4	1271.4	1646.4	1769.4	1816.3	1833.9	1892.5
75°	609.3	621.1	656.2	609.3	703.1	884.7	1160.1	1312.4	1371.0	1388.6	1476.5
77.5°	269.5	275.4	281.2	351.5	451.1	550.7	691.4	814.4	896.4	919.9	943.3
80°	140.6	146.5	181.6	240.2	322.2	404.3	503.9	574.2	626.9	632.8	656.2
82.5°	87.9	93.7	128.9	169.9	228.5	298.8	369.1	427.7	468.7	474.6	480.4
85°	41.0	52.7	76.2	105.5	152.3	193.3	199.2	169.9	181.6	187.5	175.8
87.5°	11.7	17.6	23.4	17.6	23.4	23.4	29.3	35.2	35.2	35.2	41.0
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°	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4	6591.4
2.5°	6696.8	6644.1	6439.1	6362.9	6163.7	6198.8	6093.4	6087.5	6064.1	6058.2	6052.4
5°	6860.9	6696.8	6450.8	6263.3	6152.0	6140.2	6064.1	6064.1	6087.5	6105.1	6064.1
7.5°	7130.4	6942.9	6526.9	6351.2	6251.6	6234.0	6181.3	6140.2	6193.0	6175.4	6128.5
10°	7440.9	7112.8	6673.4	6521.1	6357.0	6316.0	6316.0	6333.6	6245.7	6275.0	6228.1
12.5°	7786.6	7347.2	6860.9	6685.1	6491.8	6468.3	6456.6	6327.7	6374.6	6351.2	6234.0
15°	8226.0	7616.7	7101.1	6802.3	6638.3	6532.8	6380.5	6357.0	6327.7	6269.1	6216.4
17.5°	8700.6	7909.7	7212.4	6837.5	6591.4	6515.2	6398.0	6275.0	6187.1	6198.8	6157.8
20°	9104.9	8179.2	7253.5	6872.6	6556.2	6409.8	6228.1	6152.0	6058.2	6052.4	6046.5
22.5°	9585.3	8542.4	7312.0	6778.9	6450.8	6298.4	6175.4	6040.6	5976.2	5894.2	5935.2
25°	10159.5	8683.1	7323.8	6726.1	6374.6	6105.1	6040.6	5894.2	5870.7	5753.5	5777.0
27.5°	10575.5	8759.2	7230.0	6562.1	6198.8	5993.8	5876.6	5771.1	5730.1	5642.2	5618.8
30°	11132.1	8876.4	7030.8	6357.0	6023.1	5794.6	5724.3	5700.8	5583.6	5489.9	5478.2
32.5°	11764.9	8952.6	6901.9	6146.1	5841.4	5665.7	5700.8	5589.5	5443.0	5361.0	5337.6
35°	12268.8	8981.9	6579.7	5905.9	5718.4	5607.1	5566.1	5542.6	5331.7	5255.5	5196.9
37.5°	13036.3	8917.4	6310.2	5736.0	5583.6	5542.6	5507.5	5349.3	5109.1	4997.7	4915.7
40°	13932.7	8899.8	5964.5	5495.7	5454.7	5501.6	5396.1	5150.1	4816.1	4693.1	4634.5
42.5°	14794.0	9022.9	5747.7	5366.9	5314.1	5331.7	5185.2	4816.1	4652.1	4581.7	4488.0
45°	16235.3	9280.7	5390.3	5167.6	5144.2	5132.5	4956.7	4570.0	4476.3	4388.4	4370.8
47.5°	17536.0	9110.8	5161.8	4962.6	4986.0	4921.6	4546.6	4423.6	4318.1	4230.2	4200.9
50°	17612.2	8706.5	4839.5	4804.4	4810.2	4698.9	4341.5	4259.5	4124.7	4066.2	4025.1
52.5°	17213.8	8044.4	4540.7	4552.4	4570.0	4388.4	4089.6	4031.0	3919.7	3837.7	3814.2
55°	16094.7	7013.2	4247.8	4294.7	4341.5	3995.8	3902.1	3755.6	3667.7	3550.6	3556.4
57.5°	14178.8	5648.1	3837.7	3913.8	4013.4	3632.6	3562.3	3380.6	3251.7	3158.0	3146.3
60°	9503.3	4019.3	3222.5	3251.7	3474.4	3322.1	3316.2	3134.6	2958.8	2876.8	2829.9
62.5°	5607.1	3070.1	2783.0	2753.7	2747.9	2835.8	2982.2	2917.8	2689.3	2531.1	2578.0
65°	2935.4	2654.1	2589.7	2490.1	2431.5	2408.1	2519.4	2548.7	2396.3	2226.4	2214.7
67.5°	2466.6	2466.6	2413.9	2378.8	2296.7	2197.1	2126.8	2033.1	2009.6	1962.8	1904.2
70°	2244.0	2302.6	2285.0	2203.0	2132.7	2021.4	1839.7	1687.4	1540.9	1488.2	1523.3
72.5°	1956.9	2015.5	2015.5	1974.5	1880.7	1710.8	1535.1	1359.3	1236.3	1142.5	1130.8
75°	1505.8	1535.1	1605.4	1558.5	1435.5	1330.0	1148.4	966.7	849.6	761.7	744.1
77.5°	960.9	1007.7	1007.7	1001.9	914.0	814.4	697.2	568.3	480.4	416.0	398.4
80°	638.6	667.9	691.4	667.9	609.3	533.2	445.3	357.4	293.0	240.2	228.5
82.5°	468.7	503.9	521.5	498.0	439.4	380.8	316.4	251.9	187.5	146.5	134.8
85°	181.6	187.5	210.9	251.9	246.1	240.2	193.3	140.6	105.5	76.2	70.3
87.5°	46.9	41.0	46.9	46.9	41.0	35.2	35.2	35.2	35.2	17.6	23.4
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)