

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: STREETWORKS

Report Number: P323819

Luminaire Tested: **GAN-SA5D-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28663 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

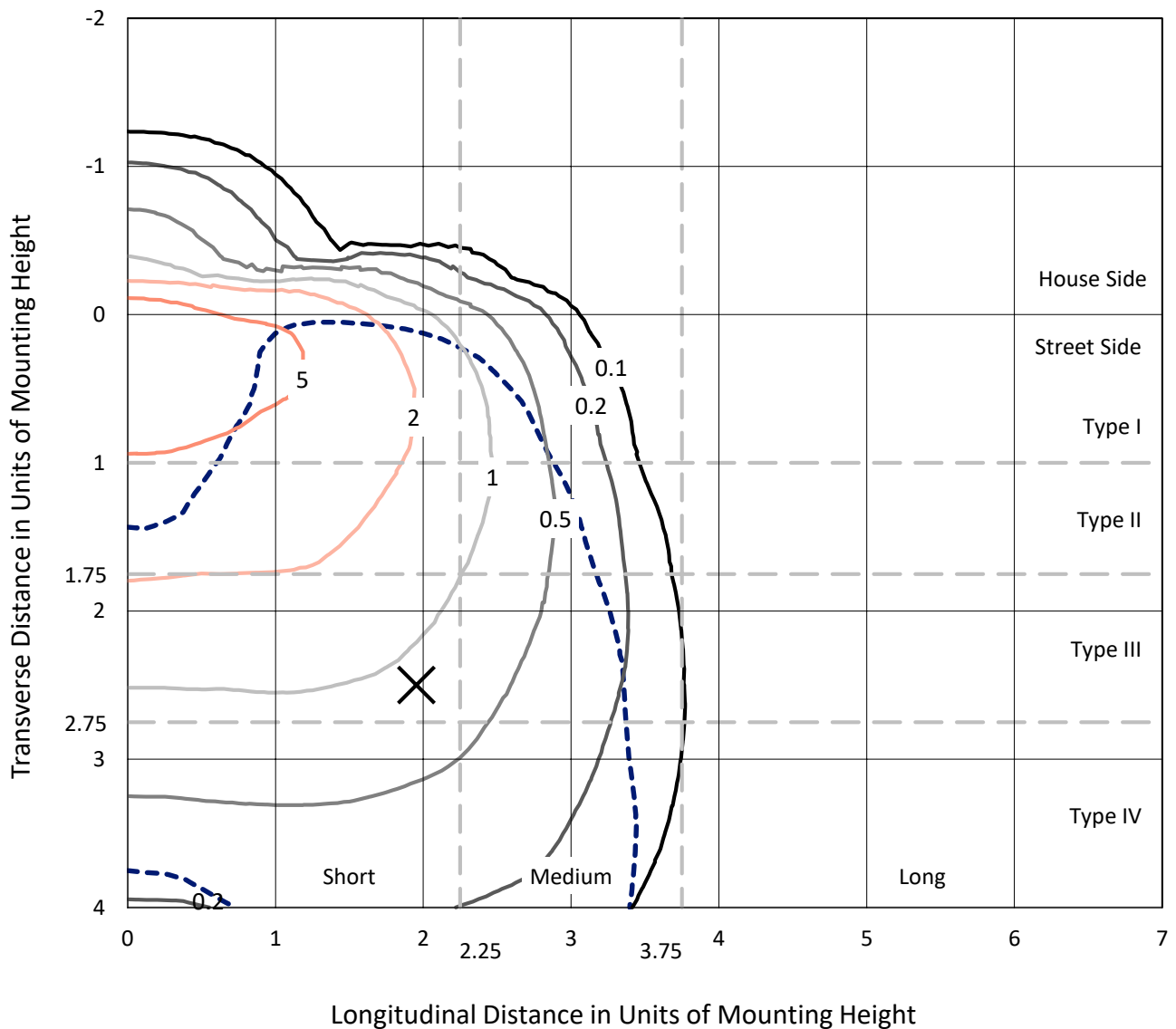
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

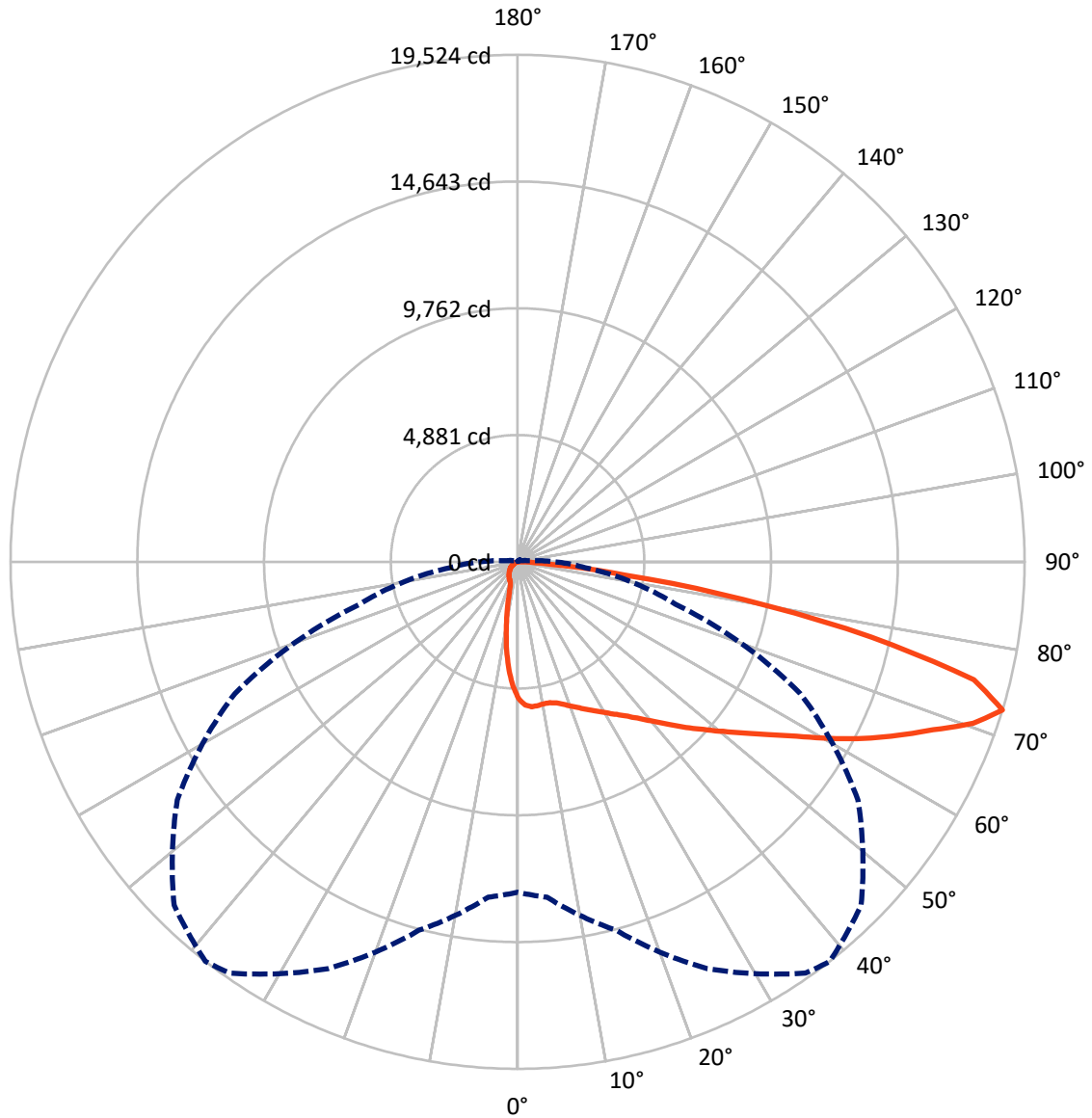
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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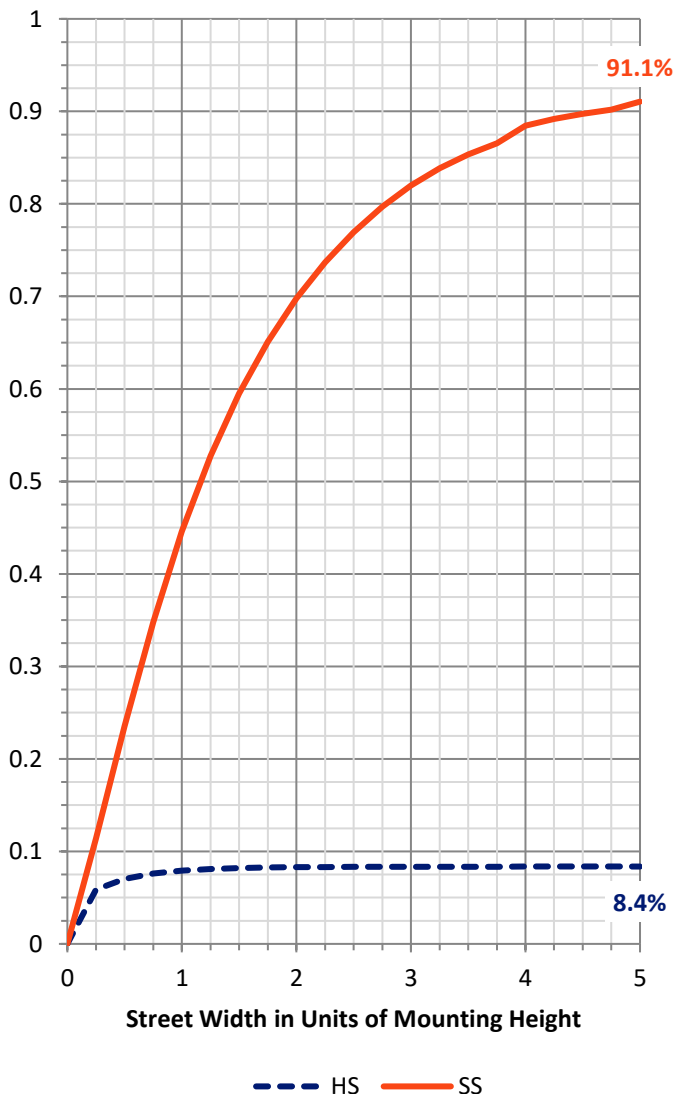
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2412.1	0.0	2412.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	26250.9	0.0	26250.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	28663.0	0.0	28663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.2	1.6
10°-20°	1098.4	3.8
20°-30°	1746.9	6.1
30°-40°	2626.4	9.2
40°-50°	4006.7	14.0
50°-60°	5662.8	19.8
60°-70°	7103.0	24.8
70°-80°	5311.1	18.5
80°-90°	658.6	2.3
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°	28663.0	100.0
0°-180°	28663.0	100.0

Coefficient of Utilization

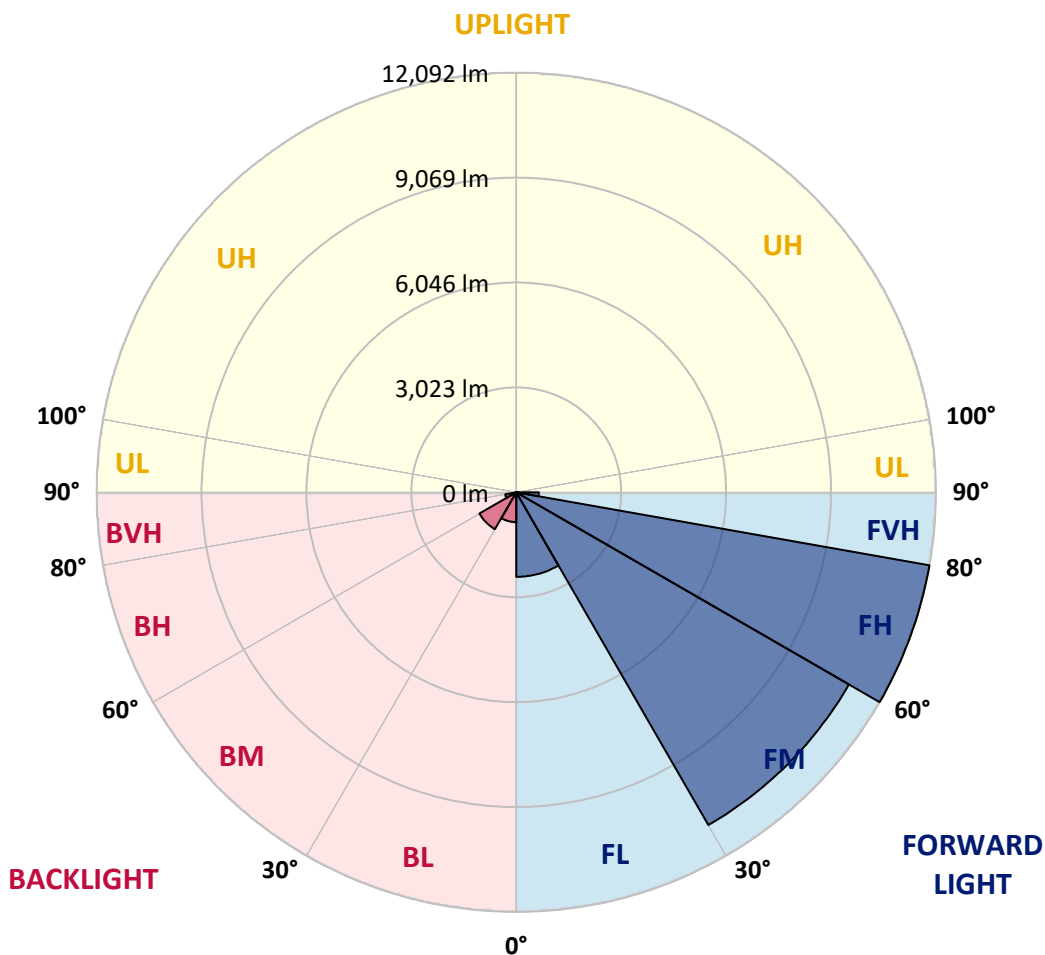


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2435.7	8.5			
FM (30°-60°)	11070.9	38.6			
FH (60°-80°)	12091.9	42.2			G5
FVH (80°-90°)	652.4	2.3			G4/750
BL (0°-30°)	858.9	3.0	B2/1000		
BM (30°-60°)	1224.9	4.3	B2/2500		
BH (60°-80°)	322.2	1.1	B1/500		G1/500
BVH (80°-90°)	6.1	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5271.0	5271.0	5271.0	5271.0	5271.0	5271.0	5271.0	5271.0	5271.0	5271.0	5271.0
2.5°	5594.8	5596.0	5582.9	5561.5	5534.1	5519.8	5496.0	5457.9	5417.4	5344.8	5266.3
5°	5709.1	5709.1	5692.4	5663.9	5619.8	5606.7	5561.5	5500.8	5417.4	5299.6	5167.5
7.5°	5697.2	5699.6	5677.0	5647.2	5603.1	5591.2	5536.5	5468.6	5365.1	5222.2	5053.2
10°	5635.3	5641.2	5623.4	5609.1	5568.6	5555.5	5504.3	5436.5	5332.9	5180.6	4986.5
12.5°	5572.2	5578.2	5584.1	5597.2	5572.2	5567.4	5527.0	5469.8	5371.0	5212.7	4993.7
15°	5531.7	5543.6	5586.5	5637.7	5643.6	5638.9	5612.7	5559.1	5459.1	5294.8	5044.9
17.5°	5531.7	5550.8	5640.1	5737.7	5772.2	5775.8	5753.1	5678.1	5559.1	5382.9	5092.5
20°	5578.2	5604.3	5743.6	5881.7	5938.8	5938.8	5894.8	5790.0	5650.8	5462.7	5124.6
22.5°	5697.2	5731.7	5906.7	6066.2	6126.9	6113.8	6054.3	5901.9	5746.0	5553.2	5165.1
25°	5931.7	5957.9	6140.0	6300.7	6337.6	6307.9	6232.9	6037.6	5867.4	5675.8	5238.9
27.5°	6234.1	6237.6	6425.7	6561.4	6538.8	6518.6	6424.5	6207.9	6042.4	5850.7	5366.3
30°	6566.2	6566.2	6731.6	6835.2	6766.2	6749.5	6655.5	6413.8	6266.2	6088.8	5547.2
32.5°	6887.6	6901.9	7036.4	7101.8	7024.5	7007.8	6916.1	6674.5	6563.8	6451.9	5829.3
35°	7198.3	7209.0	7336.4	7372.1	7298.3	7303.0	7237.5	7032.8	6991.1	6976.9	6254.3
37.5°	7499.4	7501.8	7631.6	7654.2	7617.3	7657.8	7663.7	7482.8	7560.1	7675.6	6853.1
40°	7774.4	7776.8	7905.4	7963.7	8026.8	8079.2	8125.6	8029.2	8285.1	8552.9	7566.1
42.5°	7994.6	8019.6	8182.7	8293.4	8460.1	8560.1	8686.2	8681.5	9148.1	9550.5	8427.9
45°	8188.7	8231.5	8458.9	8652.9	8938.6	9098.1	9295.7	9450.5	10119.5	10661.1	9300.5
47.5°	8444.6	8485.1	8744.6	9062.4	9443.3	9652.8	9980.2	10314.7	11187.3	11751.5	10152.8
50°	8805.3	8787.4	9043.4	9499.3	9988.5	10263.5	10730.1	11231.3	12246.7	12701.4	10654.0
52.5°	9189.8	9182.6	9371.9	9974.2	10631.3	10952.7	11569.4	12178.8	13259.7	13356.1	10883.7
55°	9665.9	9614.8	9774.3	10515.9	11394.4	11739.6	12465.7	13116.9	14066.8	13725.2	10999.2
57.5°	10164.7	10080.2	10232.6	11119.4	12255.0	12663.3	13458.5	14031.1	14603.7	13977.5	10998.0
60°	10680.1	10580.2	10761.1	11874.1	13324.0	13796.6	14534.6	14648.9	15104.8	14104.9	10917.0
62.5°	11111.1	11051.5	11320.6	12681.2	14518.0	14982.2	15347.7	15210.8	15527.4	14203.7	10727.8
65°	11567.0	11570.6	12005.0	13622.8	15786.9	16100.0	16130.9	15939.3	15880.9	14183.5	10087.3
67.5°	12183.6	12240.7	12965.7	14901.3	17021.3	17263.0	17260.6	16728.5	16139.3	13378.8	8667.2
70°	12835.9	12970.5	14072.7	16364.2	18368.9	18614.1	18487.9	17230.8	15196.5	10818.2	6134.1
72.5°	12726.4	12959.7	14688.2	17286.8	19336.6	19523.5	18703.4	15996.4	12011.0	6287.6	2611.7
75°	9818.3	10088.5	13468.0	16372.6	18321.2	18153.4	16070.2	12447.9	6563.8	1754.6	588.1
77.5°	5186.5	5330.6	8896.9	12472.9	14285.8	13934.7	11320.6	6905.4	2001.0	434.5	264.3
80°	2716.5	2749.8	3877.1	7076.8	8817.2	8819.6	6709.0	3033.1	824.9	222.6	177.4
82.5°	1454.7	1483.2	2048.7	3270.0	4619.9	4187.8	2568.9	1668.9	479.7	126.2	170.2
85°	350.0	355.9	1161.8	1493.9	1816.5	1297.5	763.0	1401.1	129.8	73.8	138.1
87.5°	134.5	136.9	430.9	646.4	463.1	300.0	357.1	522.6	16.7	28.6	21.4
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°	5271.0	5271.0	5271.0	5271.0	5271.0	5271.0	5271.0	5271.0	5271.0	5271.0	5271.0
2.5°	5218.7	5187.7	5111.5	5015.1	4929.4	4867.5	4774.6	4713.9	4673.5	4672.3	4656.8
5°	5086.5	5023.4	4859.2	4663.9	4486.6	4327.1	4139.0	3990.2	3879.5	3861.6	3823.5
7.5°	4944.9	4841.3	4588.9	4284.2	3986.6	3684.2	3333.1	3115.2	2928.4	2839.1	2829.5
10°	4858.0	4712.7	4354.4	3914.0	3447.4	2955.7	2496.2	2178.4	1948.7	1883.2	1834.4
12.5°	4840.1	4648.5	4173.5	3566.4	2899.8	2249.8	1741.5	1403.5	1220.1	1161.8	1146.3
15°	4858.0	4618.7	4021.1	3222.4	2345.1	1596.3	1169.0	972.5	903.5	886.8	885.6
17.5°	4868.7	4583.0	3848.5	2840.3	1807.0	1140.4	895.2	838.0	827.3	826.1	828.5
20°	4867.5	4528.2	3642.6	2414.1	1343.9	896.4	809.5	797.6	795.2	796.4	795.2
22.5°	4859.2	4463.9	3416.4	1974.9	1015.4	801.1	772.6	765.4	764.2	764.2	764.2
25°	4874.6	4412.8	3167.6	1554.6	836.8	757.1	739.2	733.3	732.1	732.1	729.7
27.5°	4930.6	4384.2	2895.0	1196.3	755.9	717.8	703.5	702.3	698.8	697.6	699.9
30°	5021.1	4384.2	2596.2	930.9	707.1	677.3	666.6	664.2	663.0	661.9	663.0
32.5°	5180.6	4417.5	2270.1	773.8	660.7	632.1	625.0	628.5	625.0	625.0	625.0
35°	5468.6	4517.5	1928.4	674.9	611.9	588.1	580.9	585.7	583.3	583.3	582.1
37.5°	5888.8	4703.2	1584.4	615.4	569.0	544.0	534.5	541.6	539.2	539.2	538.1
40°	6400.7	4973.4	1257.0	570.2	527.3	501.2	492.8	496.4	490.4	490.4	492.8
42.5°	7032.8	5316.3	971.4	526.2	485.7	460.7	455.9	452.3	441.6	435.7	436.9
45°	7735.1	5673.4	757.1	483.3	446.4	426.2	419.0	409.5	391.6	379.7	380.9
47.5°	8362.5	5948.4	615.4	441.6	410.7	395.2	384.5	366.6	340.5	326.2	327.4
50°	8692.2	5990.0	523.8	400.0	377.4	361.9	346.4	319.0	288.1	272.6	271.4
52.5°	8776.7	5794.8	455.9	361.9	344.0	326.2	305.9	269.0	234.5	217.8	215.5
55°	8807.7	5497.2	395.2	326.2	308.3	288.1	261.9	220.2	188.1	171.4	170.2
57.5°	8705.3	5053.2	347.6	294.0	272.6	247.6	215.5	176.2	145.2	132.1	132.1
60°	8477.9	4452.0	310.7	259.5	235.7	207.1	173.8	136.9	108.3	97.6	97.6
62.5°	8024.4	3673.5	276.2	223.8	201.2	171.4	140.5	103.6	76.2	70.2	71.4
65°	7168.5	2786.7	241.6	191.7	171.4	141.7	109.5	73.8	51.2	51.2	53.6
67.5°	5846.0	1935.6	205.9	163.1	147.6	115.5	83.3	51.2	35.7	40.5	45.2
70°	3869.9	1085.6	176.2	134.5	126.2	91.7	61.9	34.5	28.6	38.1	46.4
72.5°	1460.6	422.6	147.6	108.3	109.5	70.2	44.0	26.2	26.2	41.7	54.8
75°	407.1	207.1	105.9	79.8	85.7	51.2	32.1	22.6	25.0	47.6	64.3
77.5°	239.3	152.4	69.0	46.4	58.3	35.7	21.4	17.9	21.4	40.5	61.9
80°	192.8	80.9	40.5	23.8	32.1	20.2	14.3	10.7	6.0	15.5	32.1
82.5°	192.8	48.8	19.0	16.7	16.7	10.7	7.1	4.8	1.2	0.0	8.3
85°	129.8	20.2	11.9	10.7	8.3	3.6	2.4	1.2	0.0	0.0	0.0
87.5°	21.4	8.3	4.8	2.4	1.2	0.0	0.0	0.0	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)