

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: P324819

Luminaire Tested: **GAN-SA5D-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31746 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

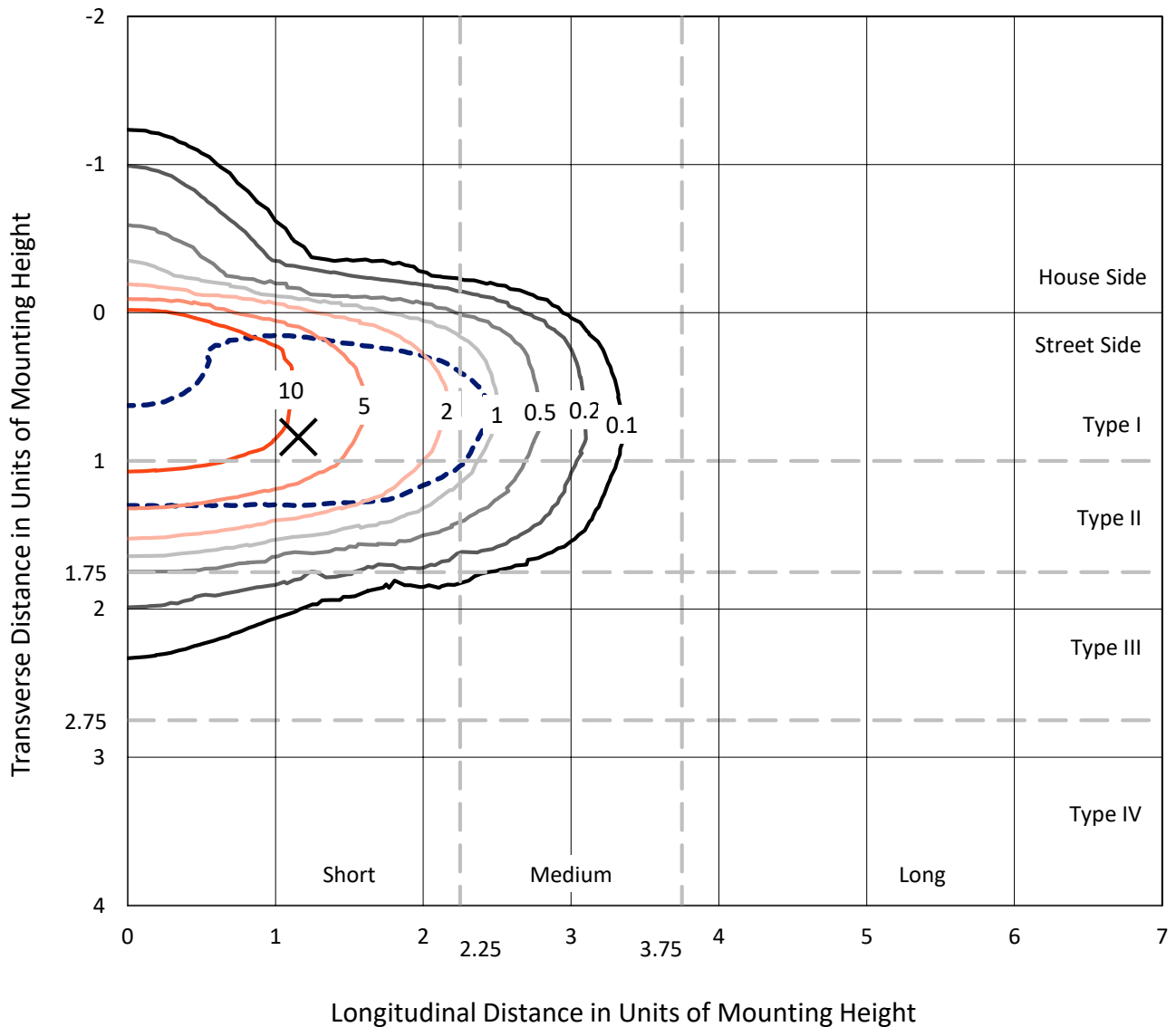
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

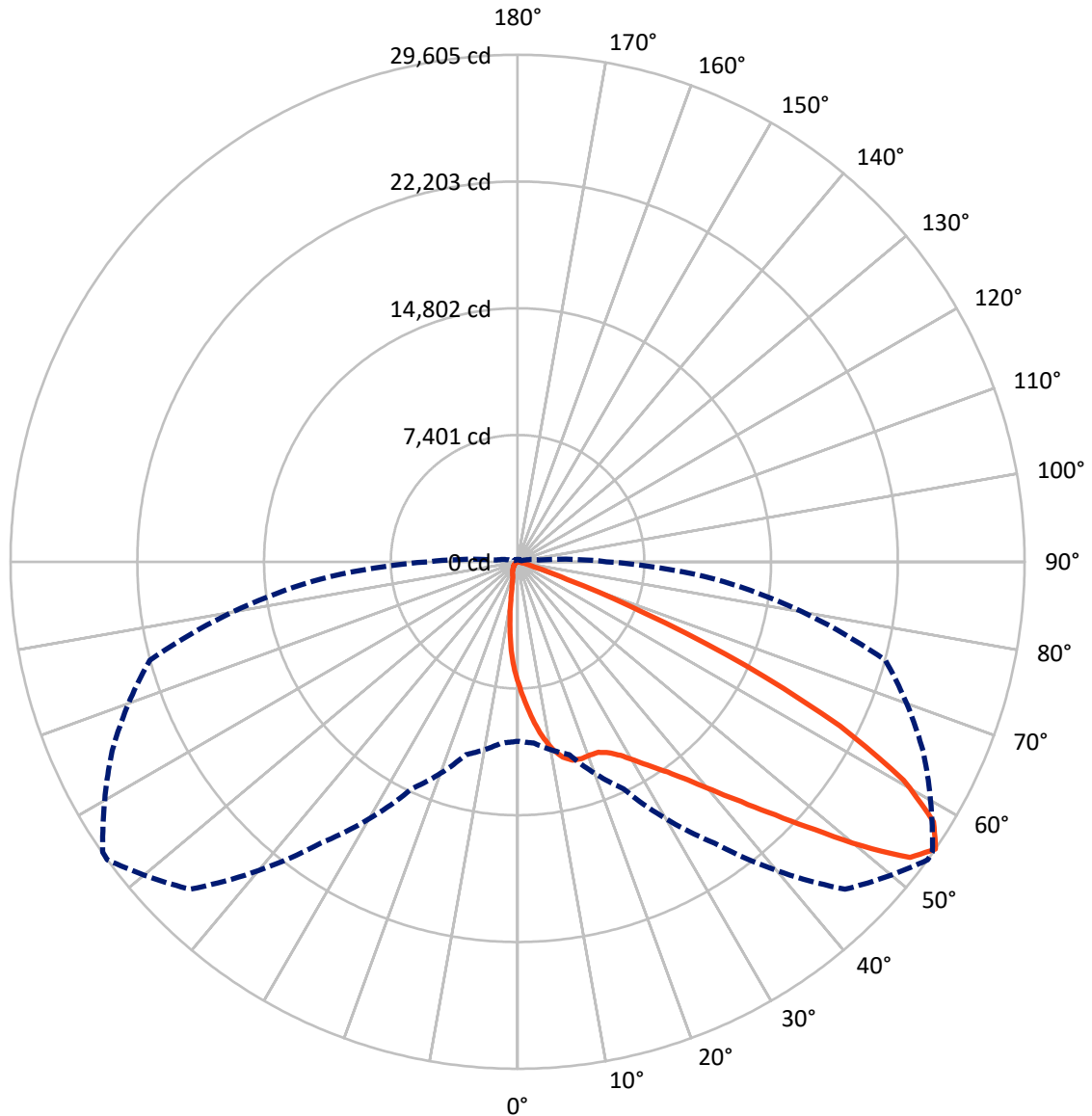
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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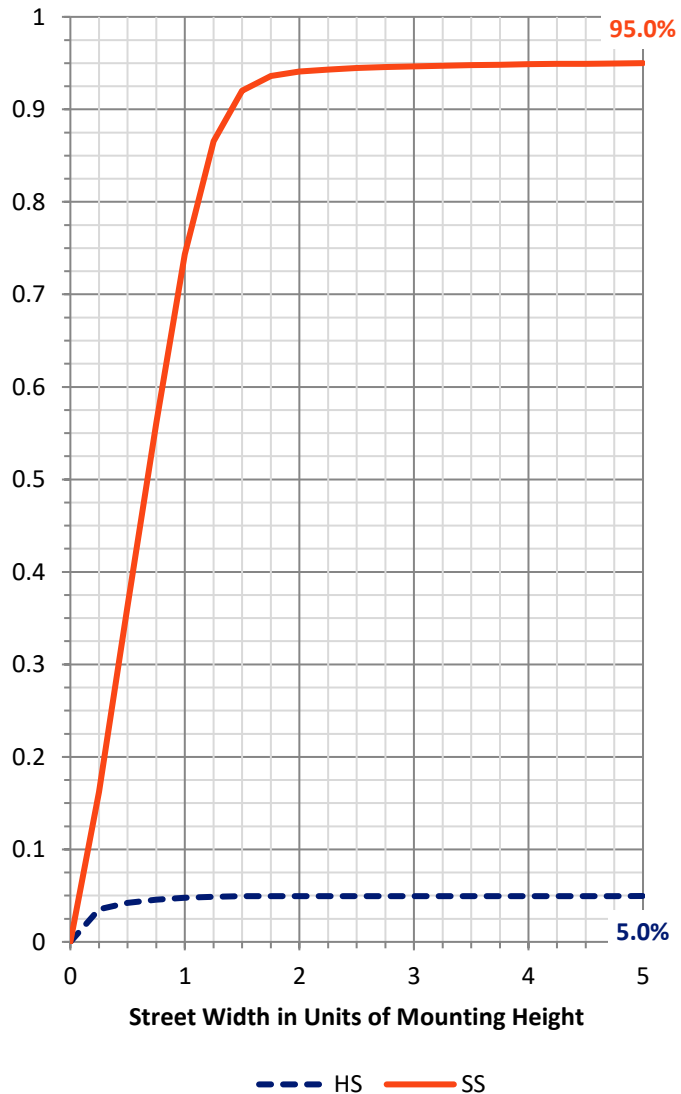
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1583.9	0.0	1583.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	30162.1	0.0	30162.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	31746.0	0.0	31746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.7	2.1
10°-20°	1795.6	5.7
20°-30°	3065.7	9.7
30°-40°	4920.0	15.5
40°-50°	7862.2	24.8
50°-60°	8424.5	26.5
60°-70°	4325.4	13.6
70°-80°	655.2	2.1
80°-90°	42.7	0.1
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°	31746.0	100.0
0°-180°	31746.0	100.0

Coefficient of Utilization



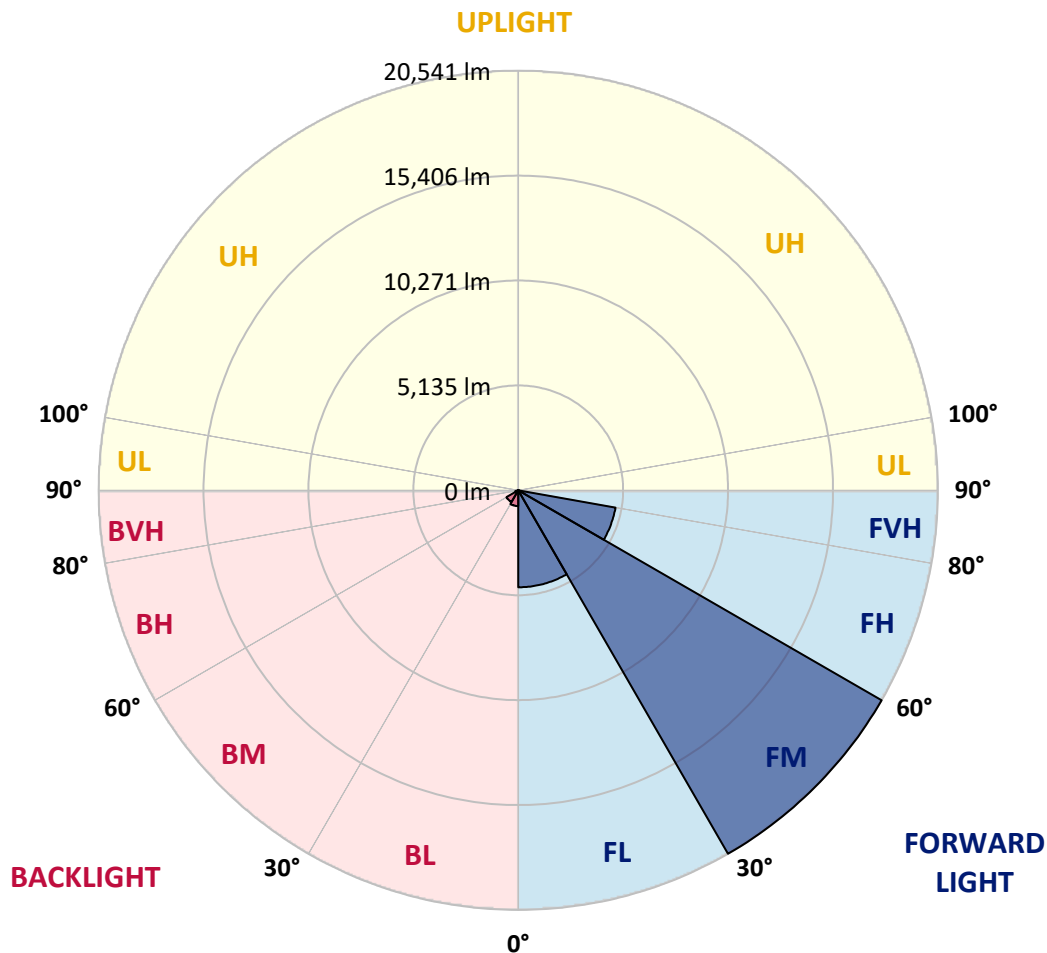
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4745.5	14.9			
FM (30°-60°)	20541.1	64.7			
FH (60°-80°)	4834.6	15.2			G2/5000
FVH (80°-90°)	40.9	0.1			G1/100
BL (0°-30°)	770.6	2.4	B2/1000		
BM (30°-60°)	665.6	2.1	B1/1000		
BH (60°-80°)	146.0	0.5	B1/500		G1/500
BVH (80°-90°)	1.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7109.8	7109.8	7109.8	7109.8	7109.8	7109.8	7109.8	7109.8	7109.8	7109.8	7109.8
2.5°	8922.2	8789.3	8793.4	8733.1	8512.3	8339.6	8160.0	8117.5	7837.8	7544.4	7262.0
5°	10464.6	10367.2	10343.9	10227.4	9920.3	9595.4	9247.2	9166.3	8619.3	8018.8	7427.9
7.5°	11257.0	11258.4	11239.2	11196.7	11004.7	10689.4	10264.4	10179.4	9435.0	8534.3	7600.6
10°	11026.7	11078.8	11185.7	11326.9	11473.6	11433.9	11114.4	11037.6	10228.8	9079.9	7792.6
12.5°	10489.3	10496.1	10615.4	10847.1	11269.3	11702.6	11708.0	11682.0	10986.9	9650.2	8003.7
15°	10221.9	10248.0	10291.8	10441.3	10841.6	11535.3	12031.6	12068.6	11682.0	10256.2	8228.5
17.5°	10397.4	10434.4	10397.4	10415.2	10646.9	11270.7	12087.8	12182.4	12289.3	10855.3	8441.0
20°	10873.1	10907.4	10841.6	10768.9	10814.2	11193.9	12048.0	12175.5	12765.1	11387.2	8619.3
22.5°	11514.7	11528.5	11428.4	11309.1	11276.2	11454.4	12081.0	12212.6	13146.2	11868.5	8731.7
25°	12220.8	12233.1	12108.4	11971.3	11893.1	11965.8	12351.0	12449.7	13482.1	12327.7	8796.1
27.5°	12989.9	13000.9	12844.6	12676.0	12585.5	12588.2	12796.6	12902.2	13839.9	12851.4	8848.2
30°	13802.9	13797.4	13653.5	13419.0	13303.9	13301.1	13438.2	13545.1	14358.1	13523.2	8919.5
32.5°	14715.9	14705.0	14500.7	14210.1	14079.8	14099.0	14221.0	14282.7	15001.1	14238.9	9047.0
35°	15918.3	15886.8	15578.3	15217.7	14977.8	14970.9	15073.8	15123.1	15820.9	15105.3	9259.5
37.5°	17478.4	17449.7	17031.5	16507.8	16170.5	16044.4	16166.4	16229.5	16990.4	16217.2	9600.9
40°	19016.7	18987.9	18739.7	18259.9	17740.3	17437.3	17533.3	17600.5	18450.5	17566.2	10031.4
42.5°	20077.8	20102.5	20188.8	20228.6	19741.9	19105.8	19149.7	19219.6	19984.6	19008.4	10523.5
45°	20357.5	20410.9	20899.0	21857.3	22039.7	21543.4	21084.1	21122.5	21543.4	20450.7	11015.7
47.5°	19517.1	19615.8	20557.6	22339.9	23883.6	24234.6	23365.4	23314.6	23039.1	21617.4	11365.3
50°	17607.3	17697.8	18918.0	21554.3	24443.0	26803.8	26099.1	25949.6	24351.1	22315.2	11488.7
52.5°	14843.4	14953.1	15944.3	19081.1	23388.7	27949.9	28687.5	28562.7	25313.5	22370.1	11509.3
55°	10482.4	10615.4	11664.2	14624.1	20047.6	27038.2	29604.6	29567.6	26112.8	22224.7	11553.1
57.5°	5891.0	5987.0	7118.1	9374.7	14683.0	23550.5	28646.3	28891.7	26595.4	21972.5	11618.9
60°	2615.8	2641.9	3227.3	4666.8	8596.0	17998.0	25903.0	26317.1	26181.3	21635.2	11730.0
62.5°	1450.5	1428.5	1428.5	1939.9	3735.9	11141.8	21122.5	21806.6	24414.2	21236.3	11735.5
65°	1136.5	1116.0	1057.0	1065.2	1423.1	4945.1	14626.8	15842.9	21058.0	20066.8	11340.6
67.5°	963.8	946.0	887.0	863.7	884.3	1631.4	8036.6	9299.3	15978.6	17027.4	9823.0
70°	814.4	802.0	771.9	743.1	691.0	806.1	3075.1	3933.3	9846.3	11326.9	6705.4
72.5°	655.3	649.8	660.8	636.1	573.1	537.4	1051.5	1273.6	4422.7	5054.8	2762.5
75°	564.8	562.1	567.6	542.9	471.6	374.3	534.7	584.0	1247.6	1236.6	559.4
77.5°	367.4	371.5	470.2	459.3	405.8	249.5	276.9	298.9	378.4	283.8	170.0
80°	234.4	231.7	238.5	381.1	364.7	190.6	138.5	145.3	182.3	139.8	82.3
82.5°	142.6	139.8	156.3	178.2	183.7	133.0	85.0	86.4	113.8	90.5	43.9
85°	12.3	16.5	94.6	87.7	63.1	41.1	41.1	43.9	60.3	53.5	24.7
87.5°	0.0	0.0	16.5	24.7	13.7	15.1	15.1	16.5	23.3	23.3	12.3
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°	7109.8	7109.8	7109.8	7109.8	7109.8	7109.8	7109.8	7109.8	7109.8	7109.8	7109.8
2.5°	7115.3	6972.7	6684.8	6407.9	6173.5	5947.3	5689.5	5434.5	5315.2	5267.3	5217.9
5°	7127.7	6834.3	6240.6	5642.9	5023.2	4465.2	3989.5	3501.4	3257.4	3150.5	3101.1
7.5°	7144.1	6697.2	5737.5	4733.9	3735.9	2979.1	2318.3	1893.3	1709.6	1680.8	1609.5
10°	7146.8	6531.3	5153.5	3730.4	2504.8	1796.0	1381.9	1162.6	1081.7	1068.0	1044.7
12.5°	7152.3	6335.2	4505.0	2762.5	1669.8	1201.0	999.4	926.8	904.8	903.5	903.5
15°	7168.8	6129.6	3831.9	1990.6	1199.6	951.5	877.4	848.6	840.4	844.5	843.1
17.5°	7168.8	5886.9	3171.0	1483.4	969.3	855.5	814.4	795.2	792.4	796.5	797.9
20°	7116.7	5592.2	2565.1	1154.4	859.6	793.8	756.8	739.0	732.1	734.8	736.2
22.5°	6991.9	5230.2	2071.5	955.6	786.9	737.6	697.8	670.4	659.4	660.8	660.8
25°	6797.2	4801.1	1620.5	826.7	728.0	677.3	630.6	599.1	592.3	590.9	593.6
27.5°	6547.7	4326.8	1290.1	728.0	658.1	610.1	563.5	537.4	531.9	533.3	534.7
30°	6302.3	3834.6	1017.3	644.4	579.9	534.7	499.0	486.7	486.7	490.8	492.2
32.5°	6077.5	3361.6	804.8	571.7	510.0	468.9	448.3	446.9	453.8	456.5	457.9
35°	5884.2	2924.3	666.3	515.5	455.2	419.5	412.7	418.1	426.4	431.9	433.2
37.5°	5747.1	2533.5	582.7	468.9	412.7	383.9	382.5	393.5	404.4	416.8	419.5
40°	5689.5	2203.1	525.1	427.7	378.4	356.5	352.3	367.4	388.0	405.8	408.5
42.5°	5641.5	1933.1	475.7	388.0	351.0	319.4	318.1	337.3	361.9	379.8	383.9
45°	5600.4	1716.4	430.5	345.5	315.3	274.2	278.3	303.0	322.2	341.4	345.5
47.5°	5515.4	1538.2	381.1	300.2	260.5	234.4	242.7	264.6	279.7	308.5	312.6
50°	5363.2	1392.9	330.4	245.4	212.5	202.9	215.2	230.3	249.5	274.2	276.9
52.5°	5260.4	1283.2	286.5	205.6	175.5	178.2	190.6	196.0	207.0	216.6	213.9
55°	5201.4	1222.9	250.9	178.2	149.4	157.7	160.4	153.5	148.1	138.5	134.4
57.5°	5194.6	1168.1	223.5	154.9	131.6	135.7	126.1	102.8	83.6	72.7	69.9
60°	5183.6	1100.9	201.5	130.2	116.5	111.0	90.5	56.2	39.8	37.0	37.0
62.5°	5064.3	996.7	185.1	109.7	98.7	83.6	52.1	26.0	21.9	23.3	23.3
65°	4684.6	851.4	168.6	89.1	78.1	60.3	26.0	15.1	8.2	9.6	9.6
67.5°	3982.7	678.6	150.8	68.5	59.0	38.4	15.1	6.9	0.0	0.0	0.0
70°	2666.5	420.9	127.5	48.0	38.4	23.3	11.0	1.4	0.0	0.0	0.0
72.5°	1022.7	227.6	102.8	28.8	24.7	16.5	6.9	0.0	0.0	0.0	0.0
75°	230.3	149.4	71.3	20.6	17.8	11.0	2.7	0.0	0.0	0.0	0.0
77.5°	87.7	108.3	41.1	13.7	12.3	6.9	0.0	0.0	0.0	0.0	0.0
80°	42.5	64.4	19.2	8.2	6.9	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	21.9	24.7	8.2	4.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.3	12.3	4.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	4.1	1.4	1.4	0.0	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)