

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: P324899

Luminaire Tested: **GAN-SA5D-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324899
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-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 31745 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

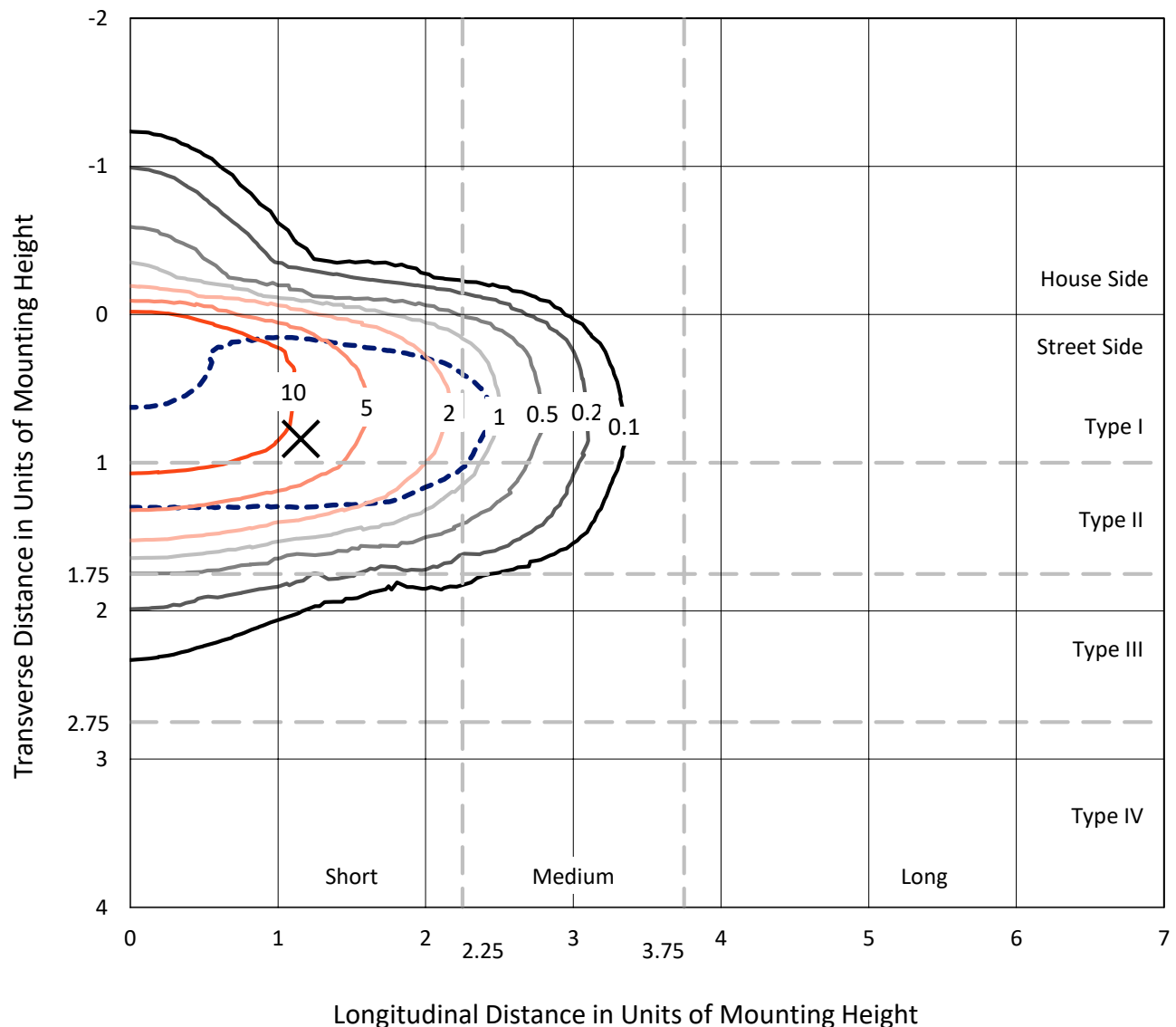
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

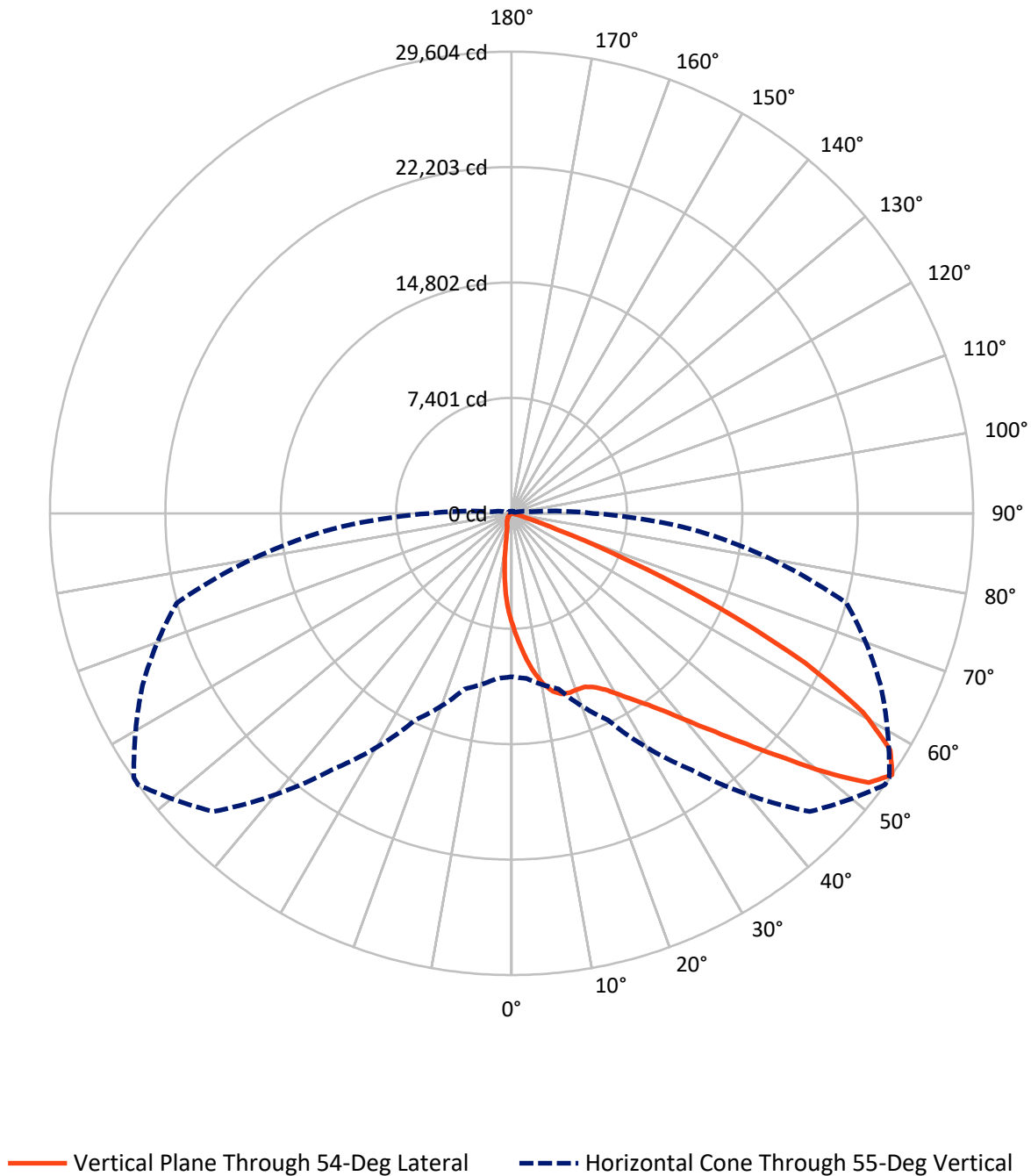
✕ Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1583.8	0.0	1583.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	30161.2	0.0	30161.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	31745.0	0.0	31745.0
	% 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°	3065.6	9.7
30°-40°	4919.8	15.5
40°-50°	7861.9	24.8
50°-60°	8424.2	26.5
60°-70°	4325.3	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°	31745.0	100.0
0°-180°	31745.0	100.0

Coefficient of Utilization



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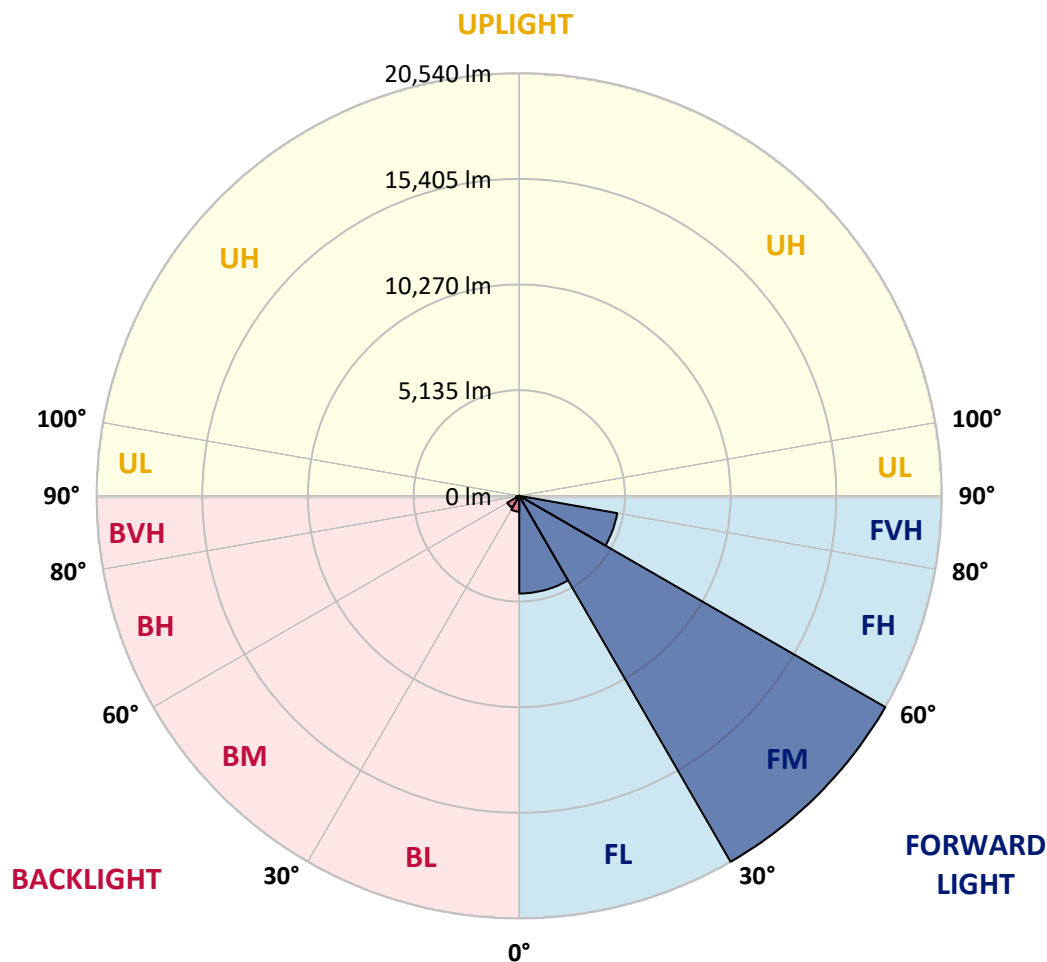
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4745.3	14.9			
FM	(30°-60°)	20540.4	64.7			
FH	(60°-80°)	4834.5	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°	7109.6	7109.6	7109.6	7109.6	7109.6	7109.6	7109.6	7109.6	7109.6	7109.6	7109.6
2.5°	8922.0	8789.0	8793.1	8732.8	8512.1	8339.3	8159.7	8117.2	7837.6	7544.2	7261.8
5°	10464.3	10366.9	10343.6	10227.1	9920.0	9595.1	9246.9	9166.0	8619.0	8018.5	7427.7
7.5°	11256.6	11258.0	11238.8	11196.3	11004.4	10689.1	10264.1	10179.1	9434.7	8534.0	7600.4
10°	11026.3	11078.4	11185.4	11326.6	11473.3	11433.5	11114.1	11037.3	10228.5	9079.6	7792.3
12.5°	10488.9	10495.8	10615.1	10846.7	11269.0	11702.2	11707.7	11681.6	10986.6	9649.9	8003.4
15°	10221.6	10247.6	10291.5	10440.9	10841.3	11534.9	12031.2	12068.2	11681.6	10255.9	8228.3
17.5°	10397.1	10434.1	10397.1	10414.9	10646.6	11270.4	12087.4	12182.0	12289.0	10855.0	8440.8
20°	10872.8	10907.1	10841.3	10768.6	10813.8	11193.6	12047.7	12175.2	12764.7	11386.9	8619.0
22.5°	11514.4	11528.1	11428.0	11308.7	11275.8	11454.1	12080.6	12212.2	13145.8	11868.1	8731.4
25°	12220.4	12232.7	12108.0	11970.9	11892.8	11965.4	12350.6	12449.4	13481.7	12327.3	8795.8
27.5°	12989.5	13000.5	12844.2	12675.6	12585.1	12587.8	12796.2	12901.8	13839.5	12851.0	8847.9
30°	13802.5	13797.0	13653.0	13418.6	13303.4	13300.7	13437.8	13544.7	14357.7	13522.8	8919.2
32.5°	14715.5	14704.5	14500.3	14209.6	14079.4	14098.6	14220.6	14282.3	15000.6	14238.4	9046.7
35°	15917.8	15886.3	15577.8	15217.2	14977.3	14970.5	15073.3	15122.7	15820.4	15104.8	9259.2
37.5°	17477.9	17449.1	17031.0	16507.3	16170.0	16043.9	16165.9	16229.0	16989.8	16216.6	9600.6
40°	19016.1	18987.3	18739.1	18259.3	17739.7	17436.8	17532.7	17599.9	18449.9	17565.6	10031.0
42.5°	20077.2	20101.8	20188.2	20228.0	19741.3	19105.2	19149.1	19219.0	19983.9	19007.8	10523.2
45°	20356.8	20410.3	20898.3	21856.6	22039.0	21542.7	21083.4	21121.8	21542.7	20450.1	11015.4
47.5°	19516.5	19615.2	20557.0	22339.2	23882.8	24233.8	23364.6	23313.9	23038.4	21616.7	11365.0
50°	17606.8	17697.2	18917.4	21553.6	24442.2	26802.9	26098.3	25948.8	24350.3	22314.5	11488.3
52.5°	14843.0	14952.7	15943.8	19080.5	23387.9	27949.0	28686.6	28561.8	25312.7	22369.3	11508.9
55°	10482.1	10615.1	11663.8	14623.6	20047.0	27037.3	29603.7	29566.7	26112.0	22224.0	11552.8
57.5°	5890.9	5986.8	7117.8	9374.4	14682.6	23549.7	28645.4	28890.8	26594.5	21971.8	11618.6
60°	2615.7	2641.8	3227.2	4666.6	8595.7	17997.5	25902.2	26316.2	26180.5	21634.5	11729.6
62.5°	1450.4	1428.5	1428.5	1939.9	3735.8	11141.5	21121.8	21805.9	24413.4	21235.6	11735.1
65°	1136.5	1115.9	1057.0	1065.2	1423.0	4944.9	14626.4	15842.4	21057.4	20066.2	11340.3
67.5°	963.8	945.9	887.0	863.7	884.2	1631.4	8036.3	9299.0	15978.1	17026.9	9822.7
70°	814.3	802.0	771.8	743.0	690.9	806.1	3075.0	3933.2	9846.0	11326.6	6705.2
72.5°	655.3	649.8	660.8	636.1	573.0	537.4	1051.5	1273.6	4422.6	5054.6	2762.4
75°	564.8	562.1	567.6	542.9	471.6	374.3	534.7	584.0	1247.5	1236.6	559.3
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°	7109.6	7109.6	7109.6	7109.6	7109.6	7109.6	7109.6	7109.6	7109.6	7109.6	7109.6
2.5°	7115.1	6972.5	6684.6	6407.7	6173.3	5947.1	5689.3	5434.3	5315.1	5267.1	5217.7
5°	7127.4	6834.1	6240.4	5642.7	5023.1	4465.1	3989.4	3501.3	3257.3	3150.4	3101.0
7.5°	7143.9	6697.0	5737.3	4733.8	3735.8	2979.0	2318.2	1893.2	1709.5	1680.8	1609.5
10°	7146.6	6531.1	5153.3	3730.3	2504.7	1795.9	1381.9	1162.5	1081.7	1067.9	1044.6
12.5°	7152.1	6335.0	4504.9	2762.4	1669.8	1200.9	999.4	926.7	904.8	903.4	903.4
15°	7168.6	6129.4	3831.7	1990.6	1199.6	951.4	877.4	848.6	840.4	844.5	843.1
17.5°	7168.6	5886.7	3170.9	1483.3	969.2	855.5	814.3	795.1	792.4	796.5	797.9
20°	7116.5	5592.0	2565.0	1154.3	859.6	793.8	756.7	738.9	732.1	734.8	736.2
22.5°	6991.7	5230.1	2071.5	955.5	786.9	737.6	697.8	670.4	659.4	660.8	660.8
25°	6797.0	4801.0	1620.4	826.7	728.0	677.2	630.6	599.1	592.2	590.9	593.6
27.5°	6547.5	4326.6	1290.0	728.0	658.0	610.1	563.4	537.4	531.9	533.3	534.7
30°	6302.1	3834.5	1017.2	644.3	579.9	534.7	499.0	486.7	486.7	490.8	492.2
32.5°	6077.3	3361.5	804.7	571.7	510.0	468.9	448.3	446.9	453.8	456.5	457.9
35°	5884.0	2924.2	666.3	515.5	455.1	419.5	412.6	418.1	426.4	431.8	433.2
37.5°	5746.9	2533.5	582.6	468.9	412.6	383.9	382.5	393.5	404.4	416.8	419.5
40°	5689.3	2203.1	525.1	427.7	378.4	356.4	352.3	367.4	388.0	405.8	408.5
42.5°	5641.3	1933.0	475.7	388.0	351.0	319.4	318.1	337.2	361.9	379.7	383.9
45°	5600.2	1716.4	430.5	345.5	315.3	274.2	278.3	303.0	322.2	341.4	345.5
47.5°	5515.2	1538.2	381.1	300.2	260.5	234.4	242.7	264.6	279.7	308.5	312.6
50°	5363.1	1392.9	330.4	245.4	212.5	202.9	215.2	230.3	249.5	274.2	276.9
52.5°	5260.2	1283.2	286.5	205.6	175.5	178.2	190.6	196.0	207.0	216.6	213.9
55°	5201.3	1222.9	250.9	178.2	149.4	157.7	160.4	153.5	148.1	138.5	134.4
57.5°	5194.4	1168.0	223.5	154.9	131.6	135.7	126.1	102.8	83.6	72.7	69.9
60°	5183.5	1100.9	201.5	130.2	116.5	111.0	90.5	56.2	39.8	37.0	37.0
62.5°	5064.2	996.7	185.1	109.7	98.7	83.6	52.1	26.0	21.9	23.3	23.3
65°	4684.4	851.3	168.6	89.1	78.1	60.3	26.0	15.1	8.2	9.6	9.6
67.5°	3982.5	678.6	150.8	68.5	58.9	38.4	15.1	6.9	0.0	0.0	0.0
70°	2666.4	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)