

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: P321241

Luminaire Tested: **GAN-SA7B-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA 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: 29714 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

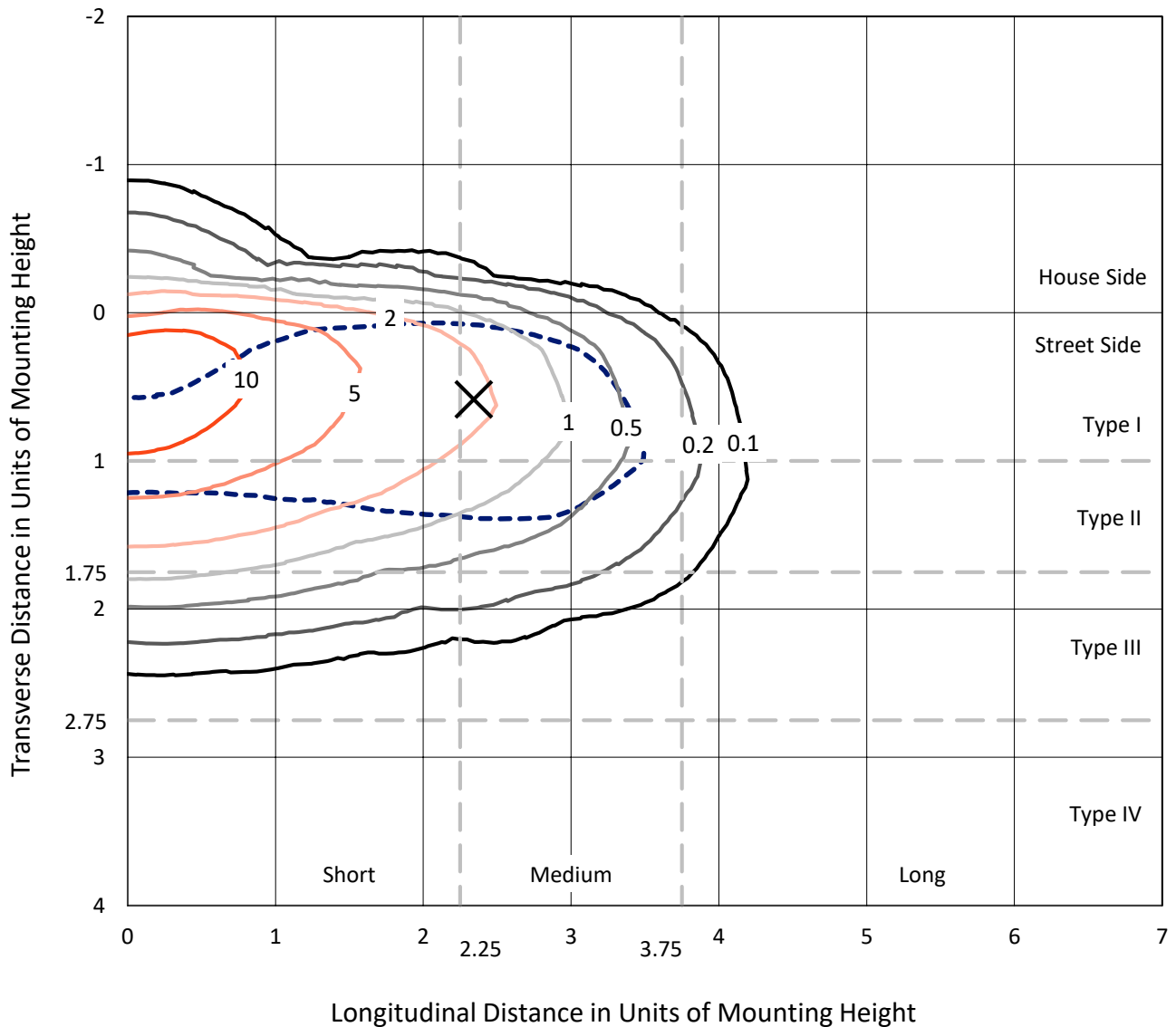
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

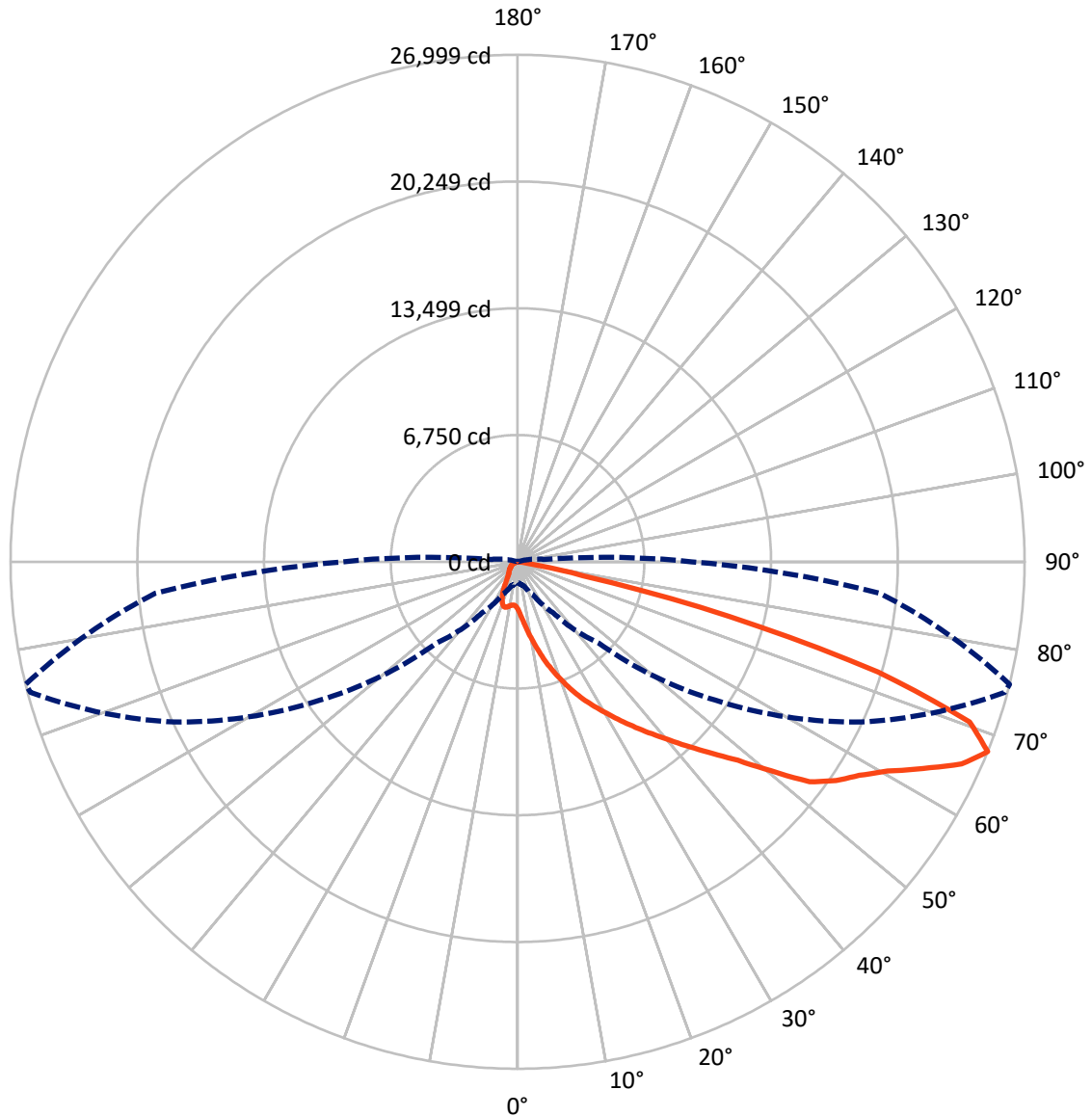
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1475.5	0.0	1475.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	28238.5	0.0	28238.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	29714.0	0.0	29714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	1.1
10°-20°	1242.5	4.2
20°-30°	2528.1	8.5
30°-40°	4387.9	14.8
40°-50°	6199.6	20.9
50°-60°	7030.6	23.7
60°-70°	5831.2	19.6
70°-80°	2112.2	7.1
80°-90°	68.5	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°	29714.0	100.0
0°-180°	29714.0	100.0

Coefficient of Utilization

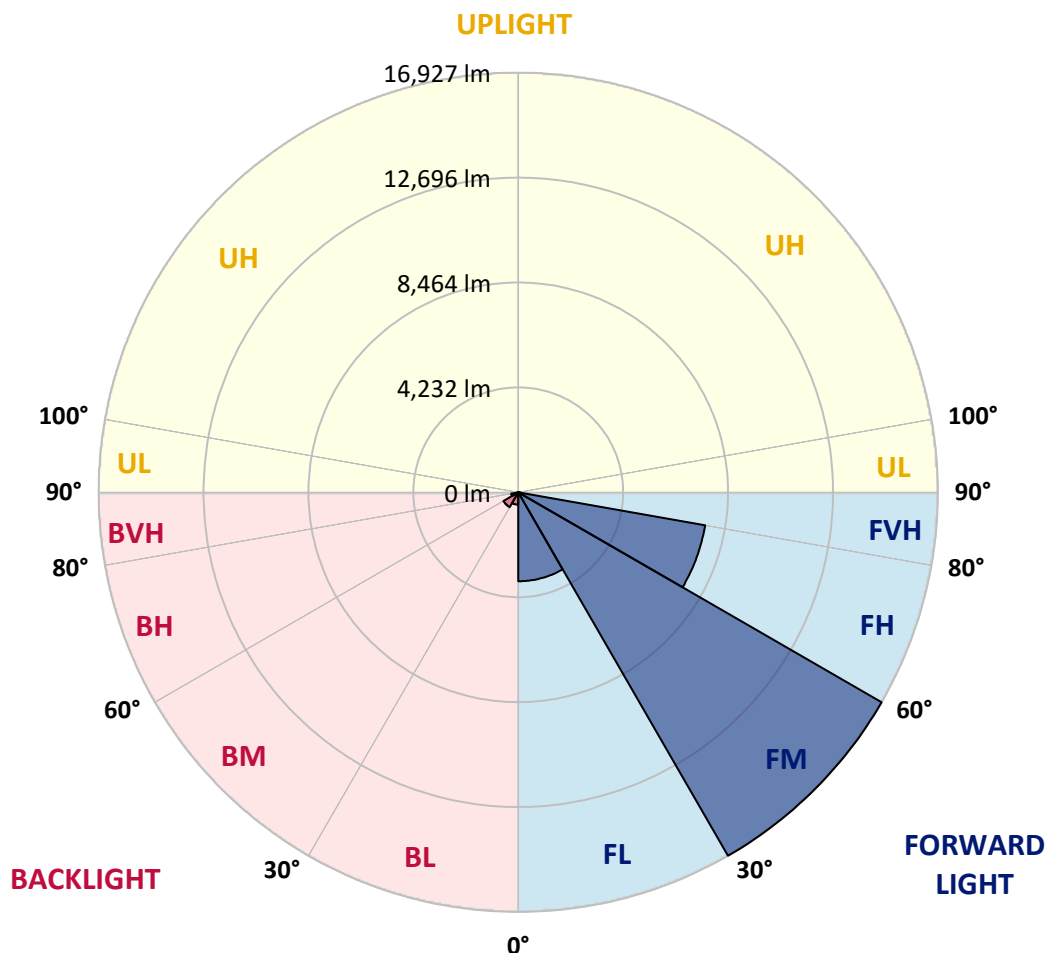


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3586.4	12.1			
FM (30°-60°)	16927.5	57.0			
FH (60°-80°)	7658.3	25.8			G4/12000
FVH (80°-90°)	66.3	0.2			G1/100
BL (0°-30°)	497.6	1.7	B1/500		
BM (30°-60°)	690.6	2.3	B1/1000		
BH (60°-80°)	285.1	1.0	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2520.6	2520.6	2520.6	2520.6	2520.6	2520.6	2520.6	2520.6	2520.6	2520.6	2520.6
2.5°	3762.7	3678.1	3697.6	3642.9	3544.0	3340.8	3167.7	3003.6	2812.2	2805.7	2648.2
5°	5073.8	5002.2	4993.0	4882.4	4702.7	4357.7	4021.8	3639.0	3212.0	3180.7	2846.1
7.5°	6263.8	6206.5	6185.6	6054.1	5719.5	5383.6	4946.2	4383.7	3715.8	3658.5	3113.0
10°	7177.7	7150.4	7155.6	7061.9	6775.4	6463.0	5888.8	5171.4	4287.4	4198.8	3433.3
12.5°	7870.4	7876.9	7923.8	7866.5	7706.3	7474.6	6861.4	6011.2	4920.1	4799.0	3799.1
15°	8379.5	8412.0	8497.9	8569.5	8557.8	8357.3	7794.9	6864.0	5591.9	5457.8	4206.7
17.5°	8708.9	8745.3	8870.3	9029.1	9175.0	9128.1	8695.8	7686.8	6271.6	6116.6	4642.8
20°	8997.9	9040.9	9175.0	9384.6	9656.7	9715.3	9431.4	8484.9	6949.9	6761.1	5093.3
22.5°	9624.1	9622.8	9704.9	9827.2	10086.3	10237.4	10057.7	9225.7	7620.4	7423.8	5552.9
25°	10756.8	10713.9	10685.2	10588.9	10646.2	10739.9	10639.7	9918.4	8294.8	8095.6	6019.0
27.5°	12103.1	12129.1	11897.4	11638.3	11437.8	11341.4	11177.4	10560.3	8943.2	8724.5	6474.7
30°	13523.5	13531.3	13257.9	12927.2	12485.9	12120.0	11836.2	11173.5	9609.8	9371.6	6917.3
32.5°	14804.7	14753.9	14483.1	14032.6	13475.4	13063.9	12474.1	11858.3	10315.5	10085.0	7409.5
35°	15820.2	15760.3	15430.9	15020.8	14442.7	14028.7	13319.1	12541.8	11057.6	10832.4	7902.9
37.5°	16562.3	16492.0	16153.5	15731.7	15233.0	14992.1	14299.5	13285.3	11867.4	11625.3	8422.4
40°	16820.1	16758.9	16546.7	16238.1	15837.1	15782.4	15339.8	14140.7	12748.9	12491.1	9010.9
42.5°	16666.5	16606.6	16531.1	16426.9	16260.3	16312.3	16321.5	15115.8	13727.9	13474.1	9660.6
45°	16057.2	16003.8	16081.9	16234.2	16441.2	16699.0	17217.2	16163.9	14821.6	14550.8	10411.8
47.5°	15160.1	15121.0	15337.2	15717.3	16322.8	17033.6	18036.1	17265.4	16049.3	15798.1	11349.2
50°	13884.2	13877.7	14309.9	15003.9	15934.8	17195.1	18882.4	18517.9	17754.9	17490.6	12652.5
52.5°	11897.4	11910.4	12760.6	13871.2	15253.8	17085.7	19426.6	20127.1	19739.1	19464.4	13781.3
55°	10005.6	10083.7	10686.5	12288.0	14209.7	16679.5	19614.1	20878.3	20834.1	20573.7	14408.9
57.5°	8152.9	8294.8	8875.5	10371.5	12685.1	15743.4	19511.3	21203.8	21649.1	21449.9	15236.9
60°	6145.3	6210.4	6879.6	8277.9	10728.2	14035.2	18765.2	21380.9	22763.6	22625.6	16438.6
62.5°	3909.8	4072.6	4666.2	6015.1	8353.4	11663.0	17507.5	21378.3	24158.0	24233.5	17989.3
65°	2059.7	2249.8	2564.9	3727.5	5740.4	9013.5	15615.8	21177.8	25868.8	25974.2	19201.4
67.5°	1110.6	1165.3	1331.9	1934.7	3329.1	6106.2	12836.1	20188.3	26859.6	26998.9	19370.7
70°	812.4	842.4	904.9	1070.2	1675.6	3546.6	9366.3	17945.0	25582.3	25530.3	17210.7
72.5°	623.6	670.5	717.4	783.8	963.5	1893.1	5831.5	14052.1	20412.2	20068.5	12864.7
75°	492.1	500.0	566.4	626.2	722.6	1078.0	2589.6	8184.2	12458.5	11644.8	6671.3
77.5°	393.2	398.4	437.5	489.5	580.7	708.3	802.0	3219.8	3977.5	3549.2	1447.8
80°	233.1	246.1	325.5	377.6	481.7	446.6	292.9	699.2	621.0	562.4	243.5
82.5°	130.2	140.6	183.6	298.2	335.9	213.5	145.8	188.8	145.8	141.9	69.0
85°	0.0	6.5	118.5	184.9	136.7	46.9	61.2	62.5	43.0	40.4	27.3
87.5°	0.0	0.0	36.5	35.2	5.2	7.8	14.3	20.8	16.9	16.9	14.3
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°	2520.6	2520.6	2520.6	2520.6	2520.6	2520.6	2520.6	2520.6	2520.6	2520.6	2520.6
2.5°	2570.1	2499.8	2367.0	2236.8	2127.4	2037.6	1956.9	1924.3	1898.3	1894.4	1873.5
5°	2684.7	2542.7	2288.9	2080.5	1941.2	1842.3	1757.7	1705.6	1665.2	1649.6	1635.3
7.5°	2857.8	2643.0	2278.4	2038.9	1872.2	1705.6	1549.3	1380.1	1274.6	1234.3	1210.8
10°	3068.7	2775.8	2317.5	2027.2	1735.5	1384.0	1124.9	910.1	822.8	794.2	786.4
12.5°	3314.8	2941.1	2385.2	1954.3	1443.9	983.0	776.0	703.1	683.5	674.4	674.4
15°	3597.3	3122.1	2433.4	1743.3	1067.6	743.4	671.8	638.0	617.1	605.4	606.7
17.5°	3886.4	3299.2	2409.9	1437.4	787.7	661.4	608.0	571.6	542.9	531.2	528.6
20°	4178.0	3463.2	2279.7	1070.2	666.6	600.2	540.3	500.0	471.3	459.6	457.0
22.5°	4480.1	3602.5	2050.6	785.1	598.9	532.5	473.9	433.6	406.2	395.8	390.6
25°	4774.3	3715.8	1730.3	635.4	535.1	468.7	412.7	375.0	350.2	339.8	338.5
27.5°	5049.0	3787.4	1359.3	561.1	479.1	411.4	360.6	326.8	306.0	298.2	296.8
30°	5296.4	3793.9	1005.1	506.5	429.6	361.9	315.1	285.1	266.9	259.1	256.5
32.5°	5546.4	3739.2	731.7	457.0	384.1	319.0	273.4	250.0	237.0	230.4	230.4
35°	5782.0	3613.0	570.3	414.0	339.8	277.3	240.9	223.9	216.1	209.6	209.6
37.5°	6012.5	3432.0	484.3	376.3	298.2	242.2	212.2	201.8	195.3	188.8	188.8
40°	6246.8	3204.1	440.1	341.1	264.3	214.8	188.8	179.7	173.2	168.0	166.7
42.5°	6534.6	2941.1	411.4	308.6	234.4	190.1	166.7	156.2	151.0	145.8	143.2
45°	6867.9	2714.6	388.0	276.0	209.6	169.3	144.5	134.1	126.3	119.8	118.5
47.5°	7348.3	2550.6	356.7	240.9	186.2	147.1	125.0	113.3	101.6	95.0	93.7
50°	7961.5	2415.1	316.4	209.6	162.7	125.0	104.2	89.8	79.4	72.9	72.9
52.5°	8266.2	2238.1	279.9	182.3	136.7	105.5	84.6	67.7	62.5	56.0	56.0
55°	8388.6	2102.7	243.5	154.9	113.3	87.2	66.4	52.1	48.2	44.3	43.0
57.5°	8732.3	2063.6	212.2	131.5	93.7	69.0	50.8	39.1	36.5	31.2	31.2
60°	9285.6	2083.1	183.6	112.0	75.5	53.4	37.8	29.9	27.3	22.1	22.1
62.5°	9883.2	2058.4	154.9	96.3	58.6	39.1	26.0	22.1	22.1	13.0	11.7
65°	9997.8	1833.2	132.8	79.4	45.6	28.6	16.9	14.3	19.5	2.6	0.0
67.5°	9279.1	1421.7	114.6	61.2	33.9	22.1	13.0	6.5	16.9	0.0	0.0
70°	7419.9	903.6	92.4	44.3	26.0	18.2	10.4	2.6	13.0	0.0	0.0
72.5°	5246.9	524.7	72.9	31.2	22.1	14.3	7.8	0.0	7.8	0.0	0.0
75°	2653.4	279.9	45.6	23.4	16.9	10.4	5.2	0.0	1.3	0.0	0.0
77.5°	574.2	130.2	28.6	16.9	11.7	6.5	2.6	0.0	0.0	0.0	0.0
80°	125.0	57.3	18.2	10.4	6.5	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	45.6	29.9	9.1	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.7	15.6	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	5.2	1.3	1.3	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)