

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: P324942

Luminaire Tested: **GAN-SA8D-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324942
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-SA8D-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 37421 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

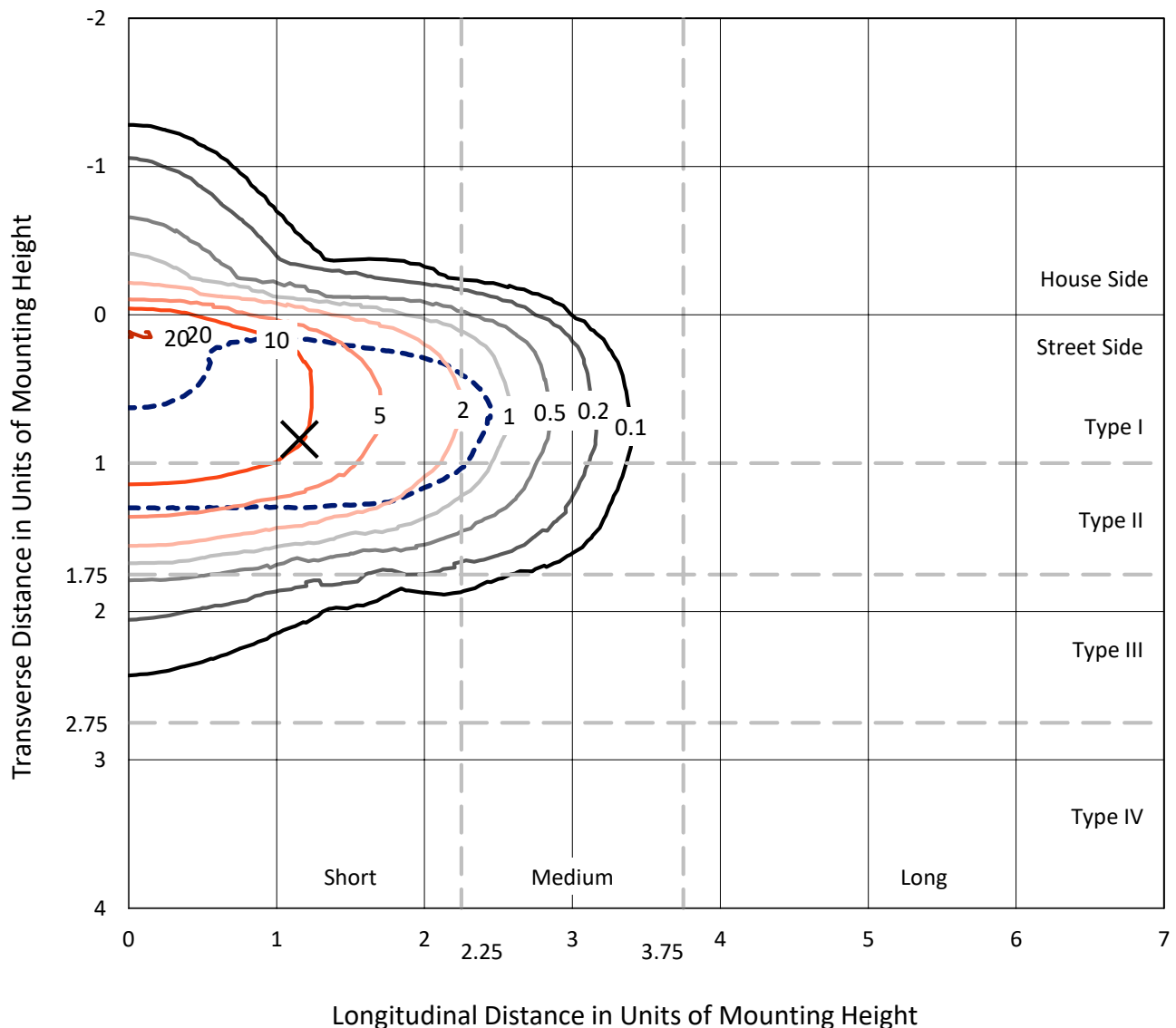
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

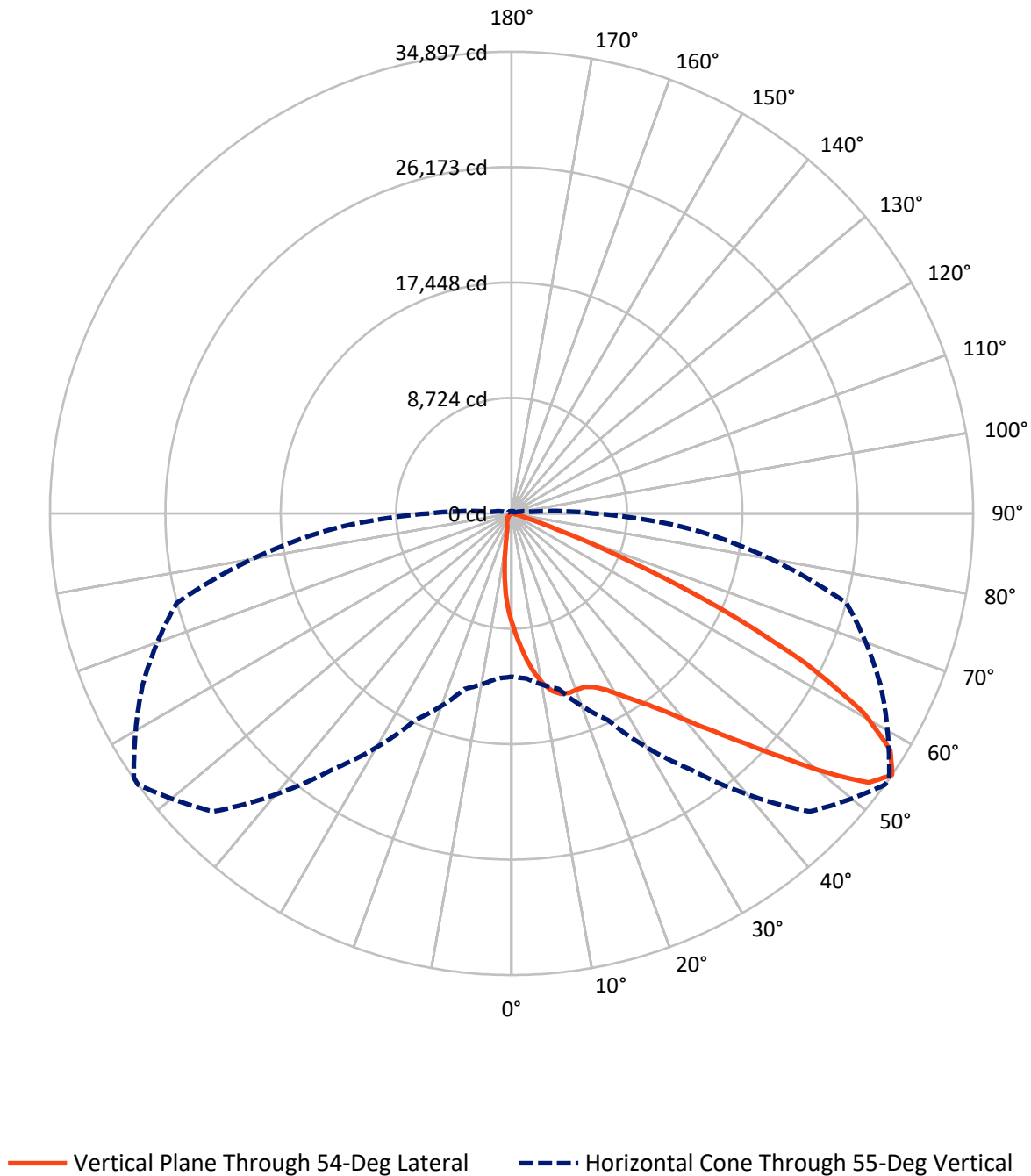
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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	1867.0	0.0	1867.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	35554.0	0.0	35554.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	37421.0	0.0	37421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.8	2.1
10°-20°	2116.6	5.7
20°-30°	3613.8	9.7
30°-40°	5799.5	15.5
40°-50°	9267.6	24.8
50°-60°	9930.5	26.5
60°-70°	5098.6	13.6
70°-80°	772.3	2.1
80°-90°	50.3	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°	37421.0	100.0
0°-180°	37421.0	100.0

Coefficient of Utilization



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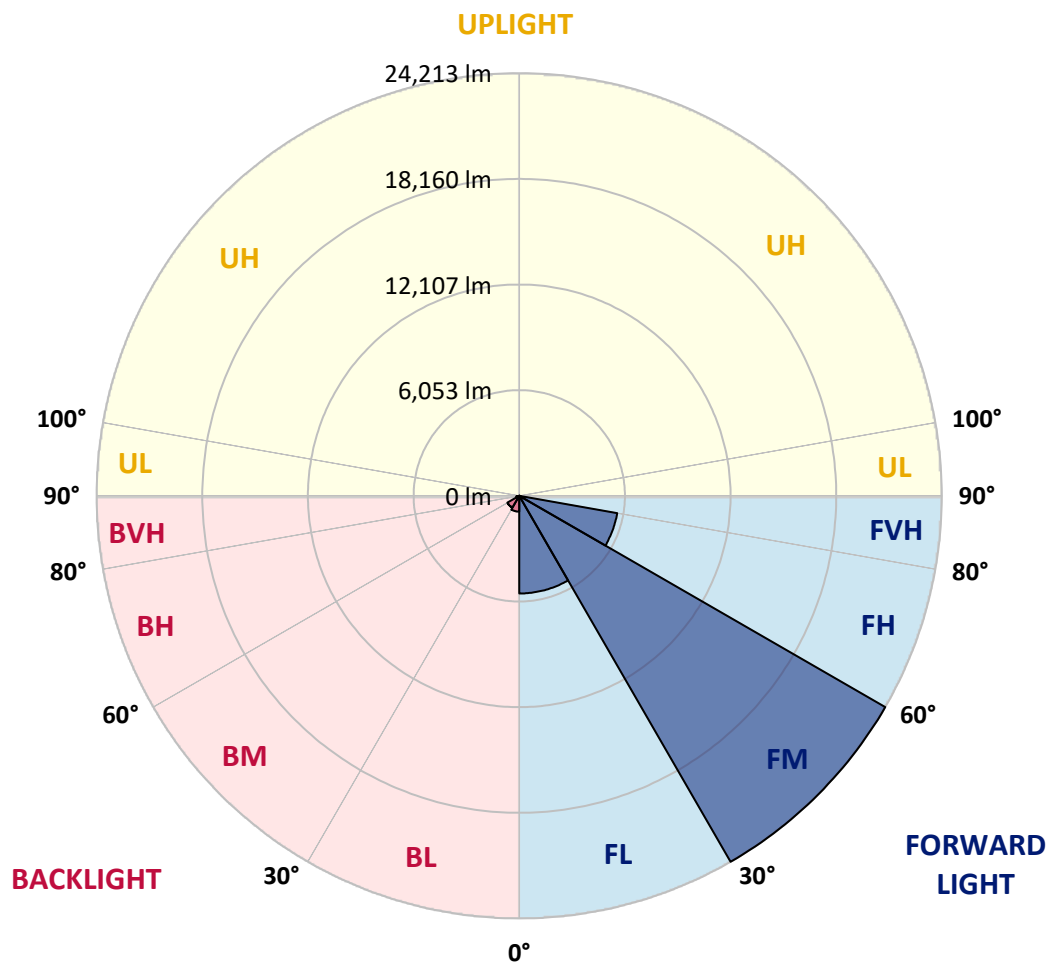
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5593.8	14.9			
FM	(30°-60°)	24213.0	64.7			
FH	(60°-80°)	5698.9	15.2			G3/7500
FVH	(80°-90°)	48.3	0.1			G1/100
BL	(0°-30°)	908.4	2.4	B2/1000		
BM	(30°-60°)	784.6	2.1	B1/1000		
BH	(60°-80°)	172.1	0.5	B1/500		G1/500
BVH	(80°-90°)	2.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8380.8	8380.8	8380.8	8380.8	8380.8	8380.8	8380.8	8380.8	8380.8	8380.8	8380.8
2.5°	10517.2	10360.5	10365.3	10294.2	10034.0	9830.4	9618.7	9568.6	9238.9	8893.1	8560.2
5°	12335.3	12220.5	12193.0	12055.7	11693.7	11310.7	10900.2	10804.9	10160.1	9452.2	8755.7
7.5°	13269.3	13271.0	13248.3	13198.2	12972.0	12600.3	12099.3	11999.1	11121.6	10059.9	8959.3
10°	12997.8	13059.2	13185.3	13351.8	13524.7	13477.8	13101.3	13010.8	12057.3	10703.1	9185.6
12.5°	12364.3	12372.4	12513.0	12786.1	13283.9	13794.5	13801.0	13770.3	12951.0	11375.3	9434.5
15°	12049.2	12079.9	12131.6	12307.8	12779.7	13597.4	14182.4	14226.0	13770.3	12089.6	9699.5
17.5°	12256.1	12299.7	12256.1	12277.1	12550.2	13285.5	14248.7	14360.2	14486.2	12795.8	9950.0
20°	12816.8	12857.2	12779.7	12694.0	12747.4	13195.0	14201.8	14352.1	15047.0	13422.9	10160.1
22.5°	13573.2	13589.3	13471.3	13330.7	13292.0	13502.0	14240.6	14395.7	15496.2	13990.1	10292.6
25°	14405.4	14420.0	14272.9	14111.3	14019.2	14104.8	14558.9	14675.3	15892.2	14531.5	10368.5
27.5°	15312.0	15324.9	15140.7	14941.9	14835.3	14838.5	15084.2	15208.6	16314.0	15148.8	10429.9
30°	16270.3	16263.9	16094.2	15817.8	15682.1	15678.9	15840.5	15966.5	16924.8	15940.7	10514.0
32.5°	17346.6	17333.7	17092.9	16750.3	16596.8	16619.4	16763.2	16835.9	17682.7	16784.2	10664.3
35°	18763.9	18726.7	18363.1	17938.1	17655.3	17647.2	17768.4	17826.6	18649.1	17805.6	10914.8
37.5°	20602.9	20569.0	20076.1	19458.8	19061.2	18912.6	19056.4	19130.7	20027.6	19116.2	11317.2
40°	22416.1	22382.2	22089.7	21524.1	20911.6	20554.5	20667.6	20746.8	21748.7	20706.4	11824.6
42.5°	23667.0	23696.0	23797.9	23844.7	23271.0	22521.2	22572.9	22655.3	23557.1	22406.4	12404.8
45°	23996.6	24059.7	24635.0	25764.6	25979.5	25394.5	24853.1	24898.4	25394.5	24106.5	12984.9
47.5°	23006.0	23122.4	24232.6	26333.4	28153.1	28566.8	27542.2	27482.4	27157.6	25481.8	13397.0
50°	20754.8	20861.5	22299.8	25407.4	28812.4	31595.3	30764.6	30588.5	28704.2	26304.3	13542.4
52.5°	17496.9	17626.2	18794.6	22492.1	27569.7	32946.3	33815.7	33668.7	29838.6	26369.0	13566.7
55°	12356.3	12513.0	13749.3	17238.3	23631.4	31871.6	34896.8	34853.2	30780.8	26197.7	13618.4
57.5°	6944.1	7057.3	8390.5	11050.5	17307.8	27760.4	33767.2	34056.5	31349.6	25900.3	13696.0
60°	3083.4	3114.1	3804.2	5501.0	10132.6	21215.4	30533.5	31021.6	30861.6	25502.8	13826.9
62.5°	1709.8	1683.9	1683.9	2286.7	4403.7	13133.6	24898.4	25704.8	28778.5	25032.5	13833.3
65°	1339.7	1315.5	1246.0	1255.7	1677.5	5829.1	17241.6	18675.0	24822.4	23654.0	13367.9
67.5°	1136.1	1115.1	1045.6	1018.1	1042.3	1923.1	9473.2	10961.6	18835.0	20071.3	11579.0
70°	959.9	945.4	909.8	875.9	814.5	950.2	3624.8	4636.4	11606.4	13351.8	7904.1
72.5°	772.5	766.0	778.9	749.8	675.5	633.5	1239.5	1501.3	5213.4	5958.4	3256.3
75°	665.8	662.6	669.0	640.0	555.9	441.2	630.3	688.4	1470.6	1457.7	659.3
77.5°	433.1	437.9	554.3	541.4	478.3	294.1	326.4	352.3	446.0	334.5	200.4
80°	276.3	273.1	281.2	449.3	429.9	224.6	163.2	171.3	214.9	164.8	97.0
82.5°	168.1	164.8	184.2	210.1	216.5	156.8	100.2	101.8	134.1	106.7	51.7
85°	14.5	19.4	111.5	103.4	74.3	48.5	48.5	51.7	71.1	63.0	29.1
87.5°	0.0	0.0	19.4	29.1	16.2	17.8	17.8	19.4	27.5	27.5	14.5
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°	8380.8	8380.8	8380.8	8380.8	8380.8	8380.8	8380.8	8380.8	8380.8	8380.8	8380.8
2.5°	8387.3	8219.2	7879.8	7553.4	7277.0	7010.4	6706.6	6406.0	6265.4	6208.8	6150.7
5°	8401.8	8056.0	7356.2	6651.6	5921.2	5263.5	4702.7	4127.4	3839.7	3713.7	3655.5
7.5°	8421.2	7894.4	6763.1	5580.2	4403.7	3511.7	2732.7	2231.8	2015.2	1981.3	1897.2
10°	8424.4	7698.8	6074.7	4397.3	2952.5	2117.0	1629.0	1370.4	1275.1	1258.9	1231.4
12.5°	8430.9	7467.7	5310.3	3256.3	1968.3	1415.7	1178.1	1092.4	1066.6	1065.0	1065.0
15°	8450.3	7225.3	4516.8	2346.5	1414.0	1121.5	1034.3	1000.3	990.6	995.5	993.9
17.5°	8450.3	6939.3	3737.9	1748.6	1142.5	1008.4	959.9	937.3	934.1	938.9	940.5
20°	8388.9	6591.8	3023.6	1360.7	1013.3	935.7	892.1	871.0	863.0	866.2	867.8
22.5°	8241.8	6165.2	2441.8	1126.4	927.6	869.4	822.6	790.2	777.3	778.9	778.9
25°	8012.3	5659.4	1910.2	974.5	858.1	798.3	743.4	706.2	698.1	696.5	699.7
27.5°	7718.2	5100.2	1520.7	858.1	775.7	719.1	664.2	633.5	627.0	628.6	630.3
30°	7429.0	4520.1	1199.1	759.5	683.6	630.3	588.2	573.7	573.7	578.5	580.2
32.5°	7163.9	3962.5	948.6	673.9	601.2	552.7	528.4	526.8	534.9	538.1	539.8
35°	6936.1	3447.0	785.4	607.6	536.5	494.5	486.4	492.9	502.6	509.1	510.7
37.5°	6774.5	2986.4	686.8	552.7	486.4	452.5	450.9	463.8	476.7	491.3	494.5
40°	6706.6	2597.0	618.9	504.2	446.0	420.2	415.3	433.1	457.3	478.3	481.6
42.5°	6650.0	2278.6	560.8	457.3	413.7	376.5	374.9	397.5	426.6	447.6	452.5
45°	6601.5	2023.3	507.4	407.2	371.7	323.2	328.1	357.1	379.8	402.4	407.2
47.5°	6501.3	1813.2	449.3	353.9	307.0	276.3	286.0	311.9	329.7	363.6	368.5
50°	6322.0	1641.9	389.5	289.3	250.5	239.2	253.7	271.5	294.1	323.2	326.4
52.5°	6200.8	1512.6	337.8	242.4	206.9	210.1	224.6	231.1	244.0	255.3	252.1
55°	6131.3	1441.5	295.7	210.1	176.1	185.8	189.1	181.0	174.5	163.2	158.4
57.5°	6123.2	1376.9	263.4	182.6	155.1	160.0	148.7	121.2	98.6	85.7	82.4
60°	6110.3	1297.7	237.6	153.5	137.4	130.9	106.7	66.3	46.9	43.6	43.6
62.5°	5969.7	1174.9	218.2	129.3	116.4	98.6	61.4	30.7	25.9	27.5	27.5
65°	5522.0	1003.6	198.8	105.0	92.1	71.1	30.7	17.8	9.7	11.3	11.3
67.5°	4694.6	799.9	177.8	80.8	69.5	45.2	17.8	8.1	0.0	0.0	0.0
70°	3143.2	496.1	150.3	56.6	45.2	27.5	12.9	1.6	0.0	0.0	0.0
72.5°	1205.6	268.3	121.2	33.9	29.1	19.4	8.1	0.0	0.0	0.0	0.0
75°	271.5	176.1	84.0	24.2	21.0	12.9	3.2	0.0	0.0	0.0	0.0
77.5°	103.4	127.7	48.5	16.2	14.5	8.1	0.0	0.0	0.0	0.0	0.0
80°	50.1	76.0	22.6	9.7	8.1	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	25.9	29.1	9.7	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.5	14.5	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	4.8	1.6	1.6	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)