

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: P324814

Luminaire Tested: **GAN-SA0C-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324814
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-SA0C-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA 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: 57311 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

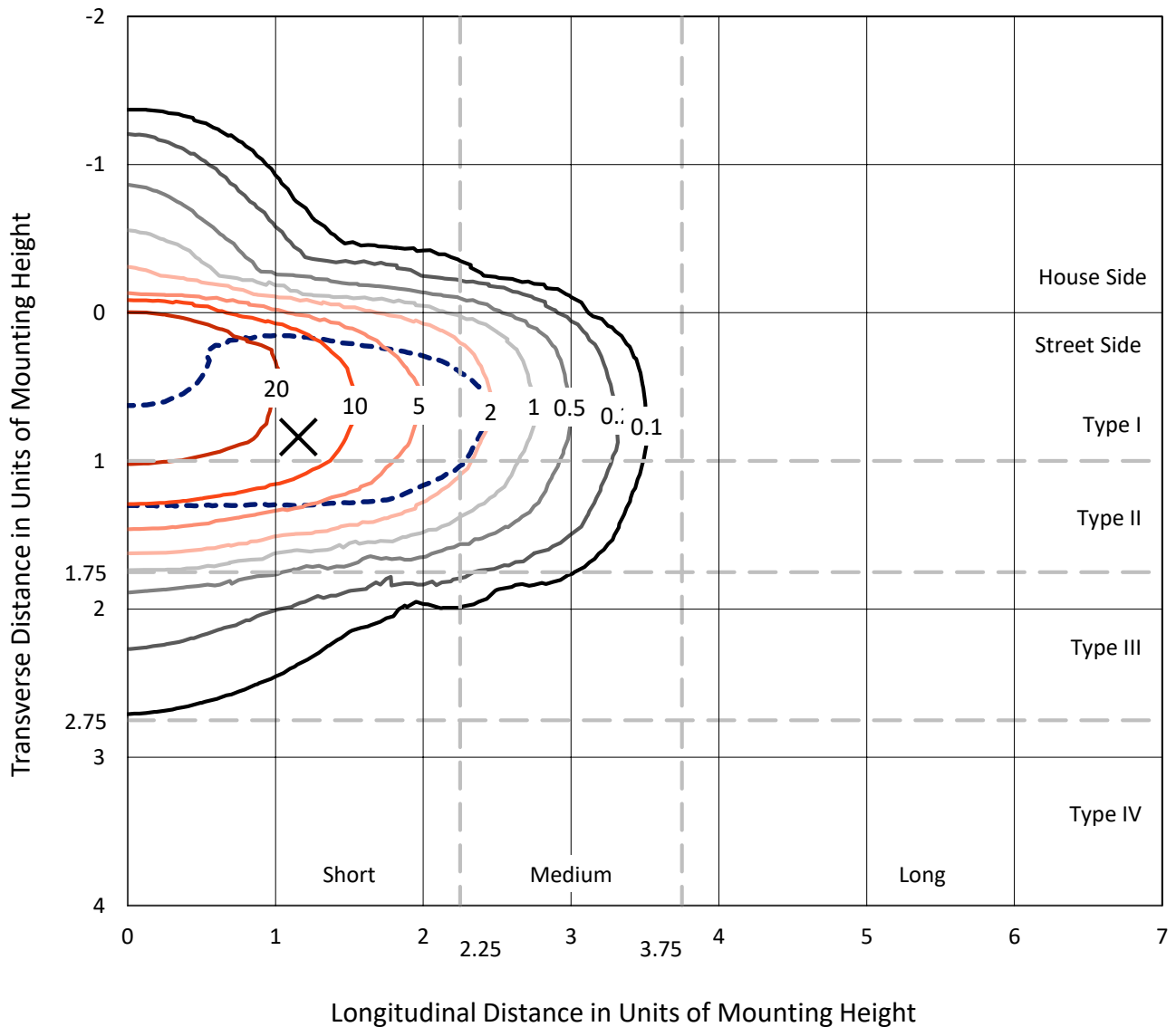
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

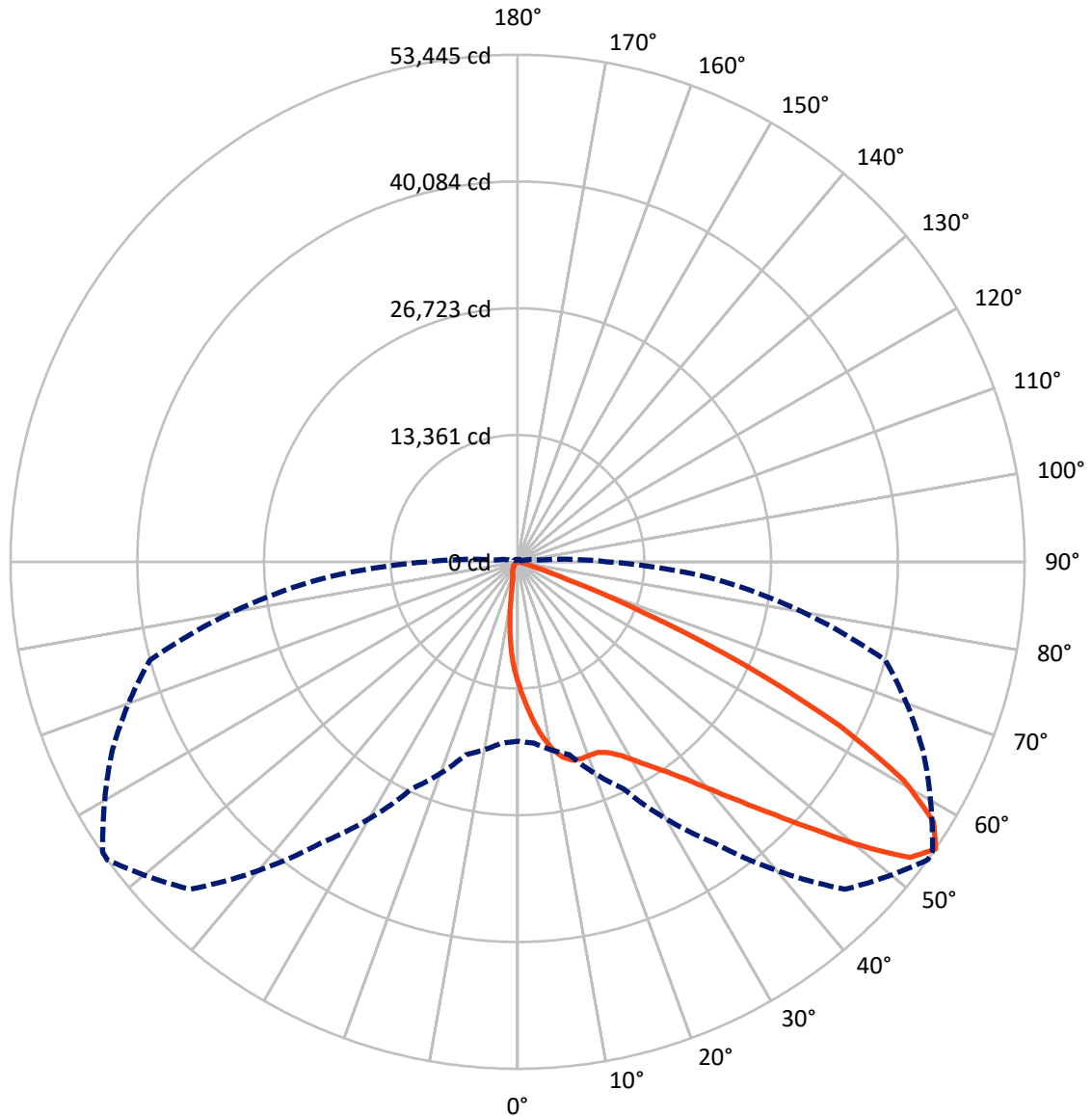
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.5 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	2859.4	0.0	2859.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	54451.6	0.0	54451.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	57311.0	0.0	57311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1182.0	2.1
10°-20°	3241.7	5.7
20°-30°	5534.6	9.7
30°-40°	8882.0	15.5
40°-50°	14193.5	24.8
50°-60°	15208.8	26.5
60°-70°	7808.6	13.6
70°-80°	1182.8	2.1
80°-90°	77.0	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°	57311.0	100.0
0°-180°	57311.0	100.0

Coefficient of Utilization

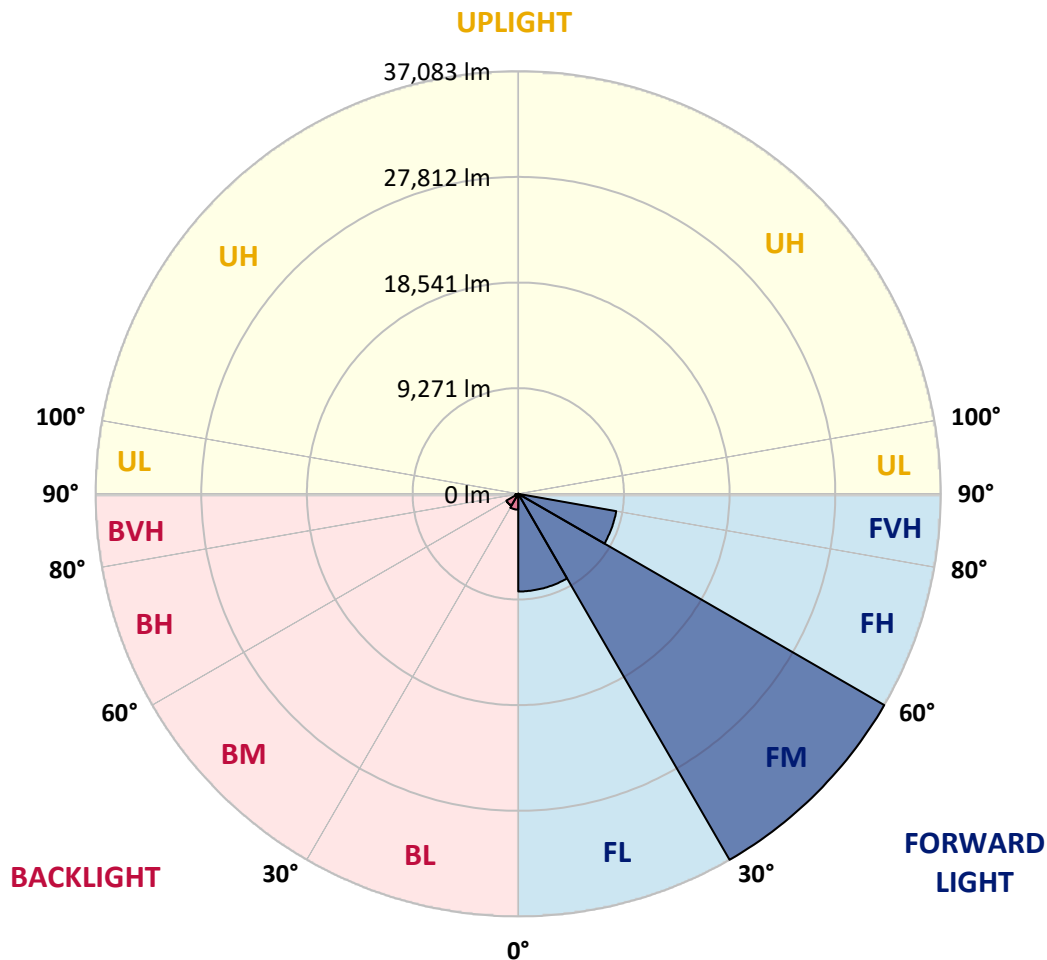


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8567.0	14.9			
FM (30°-60°)	37082.7	64.7			
FH (60°-80°)	8727.9	15.2			G4/12000
FVH (80°-90°)	73.9	0.1			G1/100
BL (0°-30°)	1391.2	2.4	B3/2500		
BM (30°-60°)	1201.6	2.1	B2/2500		
BH (60°-80°)	263.5	0.5	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CATALOG NUMBER: GAN-SAOC-740-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12835.4	12835.4	12835.4	12835.4	12835.4	12835.4	12835.4	12835.4	12835.4	12835.4	12835.4
2.5°	16107.3	15867.2	15874.7	15765.8	15367.3	15055.4	14731.2	14654.5	14149.6	13619.9	13110.1
5°	18891.7	18716.0	18673.9	18463.5	17909.1	17322.5	16693.9	16547.9	15560.3	14476.3	13409.6
7.5°	20322.2	20324.7	20290.1	20213.3	19866.8	19297.6	18530.3	18376.9	17033.0	15406.9	13721.4
10°	19906.4	20000.5	20193.5	20448.5	20713.3	20641.5	20064.8	19926.2	18466.0	16391.9	14067.9
12.5°	18936.2	18948.6	19163.9	19582.2	20344.5	21126.6	21136.5	21089.5	19834.7	17421.5	14449.1
15°	18453.6	18500.6	18579.8	18849.6	19572.3	20824.7	21720.6	21787.4	21089.5	18515.5	14855.0
17.5°	18770.4	18837.2	18770.4	18802.6	19220.9	20347.0	21822.1	21992.9	22185.9	19597.1	15238.6
20°	19629.2	19691.1	19572.3	19441.1	19522.8	20208.4	21750.3	21980.5	23044.7	20557.4	15560.3
22.5°	20787.5	20812.3	20631.6	20416.3	20356.9	20678.6	21809.7	22047.3	23732.8	21426.1	15763.3
25°	22062.2	22084.4	21859.2	21611.7	21470.6	21601.8	22297.3	22475.5	24339.2	22255.2	15879.6
27.5°	23450.7	23470.5	23188.3	22883.9	22720.5	22725.5	23101.7	23292.3	24985.2	23200.7	15973.7
30°	24918.3	24908.4	24648.6	24225.3	24017.4	24012.5	24260.0	24453.0	25920.7	24413.4	16102.4
32.5°	26566.7	26546.9	26178.1	25653.4	25418.3	25452.9	25673.2	25784.6	27081.5	25705.4	16332.5
35°	28737.3	28680.3	28123.5	27472.5	27039.4	27027.0	27212.7	27301.8	28561.5	27269.6	16716.2
37.5°	31553.8	31501.8	30747.0	29801.5	29192.7	28965.0	29185.2	29299.1	30672.7	29276.8	17332.4
40°	34330.8	34278.8	33830.8	32964.6	32026.5	31479.6	31652.8	31774.1	33308.6	31712.2	18109.6
42.5°	36246.4	36291.0	36446.9	36518.7	35640.0	34491.6	34570.8	34697.1	36078.1	34315.9	18998.1
45°	36751.3	36847.8	37728.9	39459.0	39788.1	38892.2	38063.1	38132.4	38892.2	36919.6	19886.6
47.5°	35234.1	35412.3	37112.7	40330.2	43117.0	43750.6	42181.5	42089.9	41592.4	39025.8	20517.8
50°	31786.5	31949.8	34152.6	38912.0	44126.8	48388.8	47116.6	46846.9	43961.0	40285.6	20740.5
52.5°	26796.9	26994.9	28784.3	34447.1	42223.5	50457.9	51789.4	51564.2	45698.4	40384.6	20777.6
55°	18923.9	19163.9	21057.3	26400.9	36192.0	48812.0	53445.2	53378.4	47141.4	40122.3	20856.8
57.5°	10635.1	10808.3	12850.2	16924.1	26507.3	42515.6	51715.2	52158.2	48012.6	39666.9	20975.6
60°	4722.3	4769.3	5826.2	8424.9	15518.3	32491.8	46762.7	47510.2	47265.1	39058.0	21176.1
62.5°	2618.6	2579.0	2579.0	3502.1	6744.4	20114.3	38132.4	39367.4	44074.8	38337.8	21186.0
65°	2051.8	2014.7	1908.2	1923.1	2569.1	8927.3	26405.8	28601.1	38016.0	36226.6	20473.2
67.5°	1739.9	1707.8	1601.3	1559.3	1596.4	2945.3	14508.5	16787.9	28846.2	30739.5	17733.4
70°	1470.2	1447.9	1393.4	1341.5	1247.4	1455.3	5551.4	7100.8	17775.5	20448.5	12105.2
72.5°	1183.1	1173.2	1193.0	1148.4	1034.6	970.2	1898.3	2299.3	7984.4	9125.3	4987.1
75°	1019.7	1014.8	1024.7	980.1	851.4	675.7	965.3	1054.4	2252.3	2232.5	1009.8
77.5°	663.3	670.7	848.9	829.1	732.6	450.5	500.0	539.6	683.1	512.3	306.9
80°	423.2	418.3	430.7	688.1	658.4	344.0	250.0	262.4	329.2	252.5	148.5
82.5°	257.4	252.5	282.2	321.8	331.7	240.1	153.5	155.9	205.4	163.4	79.2
85°	22.3	29.7	170.8	158.4	113.9	74.3	74.3	79.2	108.9	96.5	44.6
87.5°	0.0	0.0	29.7	44.6	24.8	27.2	27.2	29.7	42.1	42.1	22.3
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°	12835.4	12835.4	12835.4	12835.4	12835.4	12835.4	12835.4	12835.4	12835.4	12835.4	12835.4
2.5°	12845.3	12587.9	12068.1	11568.2	11144.9	10736.6	10271.3	9810.9	9595.6	9509.0	9419.9
5°	12867.5	12337.9	11266.2	10187.1	9068.4	8061.1	7202.3	6321.2	5880.6	5687.6	5598.5
7.5°	12897.2	12090.4	10357.9	8546.2	6744.4	5378.2	4185.2	3418.0	3086.3	3034.4	2905.7
10°	12902.2	11790.9	9303.5	6734.5	4521.8	3242.3	2494.8	2098.8	1952.8	1928.0	1886.0
12.5°	12912.1	11437.0	8132.9	4987.1	3014.6	2168.1	1804.3	1673.1	1633.5	1631.0	1631.0
15°	12941.8	11065.7	6917.6	3593.7	2165.6	1717.7	1584.0	1532.0	1517.2	1524.6	1522.1
17.5°	12941.8	10627.7	5724.7	2678.0	1749.8	1544.4	1470.2	1435.5	1430.6	1438.0	1440.5
20°	12847.7	10095.5	4630.7	2084.0	1551.8	1433.0	1366.2	1334.0	1321.7	1326.6	1329.1
22.5°	12622.5	9442.1	3739.7	1725.1	1420.7	1331.6	1259.8	1210.3	1190.5	1193.0	1193.0
25°	12271.1	8667.5	2925.5	1492.4	1314.2	1222.7	1138.5	1081.6	1069.2	1066.7	1071.7
27.5°	11820.6	7811.1	2329.0	1314.2	1188.0	1101.4	1017.2	970.2	960.3	962.8	965.3
30°	11377.6	6922.6	1836.5	1163.3	1046.9	965.3	900.9	878.6	878.6	886.1	888.5
32.5°	10971.7	6068.7	1452.8	1032.1	920.7	846.5	809.3	806.9	819.2	824.2	826.7
35°	10622.7	5279.2	1202.9	930.6	821.7	757.4	745.0	754.9	769.7	779.6	782.1
37.5°	10375.2	4573.8	1051.9	846.5	745.0	693.0	690.5	710.3	730.1	752.4	757.4
40°	10271.3	3977.3	947.9	772.2	683.1	643.5	636.1	663.3	700.4	732.6	737.6
42.5°	10184.6	3489.8	858.8	700.4	633.6	576.7	574.2	608.9	653.4	685.6	693.0
45°	10110.4	3098.7	777.2	623.7	569.3	495.0	502.4	547.0	581.6	616.3	623.7
47.5°	9956.9	2777.0	688.1	542.0	470.3	423.2	438.1	477.7	504.9	556.9	564.3
50°	9682.2	2514.6	596.5	443.0	383.6	366.3	388.6	415.8	450.5	495.0	500.0
52.5°	9496.6	2316.6	517.3	371.3	316.8	321.8	344.0	353.9	373.7	391.1	386.1
55°	9390.2	2207.7	452.9	321.8	269.8	284.6	289.6	277.2	267.3	250.0	242.6
57.5°	9377.8	2108.7	403.4	279.7	237.6	245.0	227.7	185.6	151.0	131.2	126.2
60°	9358.0	1987.4	363.8	235.1	210.4	200.5	163.4	101.5	71.8	66.8	66.8
62.5°	9142.7	1799.3	334.1	198.0	178.2	151.0	94.1	47.0	39.6	42.1	42.1
65°	8457.1	1537.0	304.4	160.9	141.1	108.9	47.0	27.2	14.9	17.3	17.3
67.5°	7189.9	1225.1	272.3	123.8	106.4	69.3	27.2	12.4	0.0	0.0	0.0
70°	4813.9	759.8	230.2	86.6	69.3	42.1	19.8	2.5	0.0	0.0	0.0
72.5°	1846.4	410.9	185.6	52.0	44.6	29.7	12.4	0.0	0.0	0.0	0.0
75°	415.8	269.8	128.7	37.1	32.2	19.8	5.0	0.0	0.0	0.0	0.0
77.5°	158.4	195.5	74.3	24.8	22.3	12.4	0.0	0.0	0.0	0.0	0.0
80°	76.7	116.3	34.7	14.9	12.4	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.6	44.6	14.9	7.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.3	22.3	7.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.4	7.4	2.5	2.5	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)