

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: P324744

Luminaire Tested: **GAN-SA0D-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324744
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-SA0D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 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: 52575 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

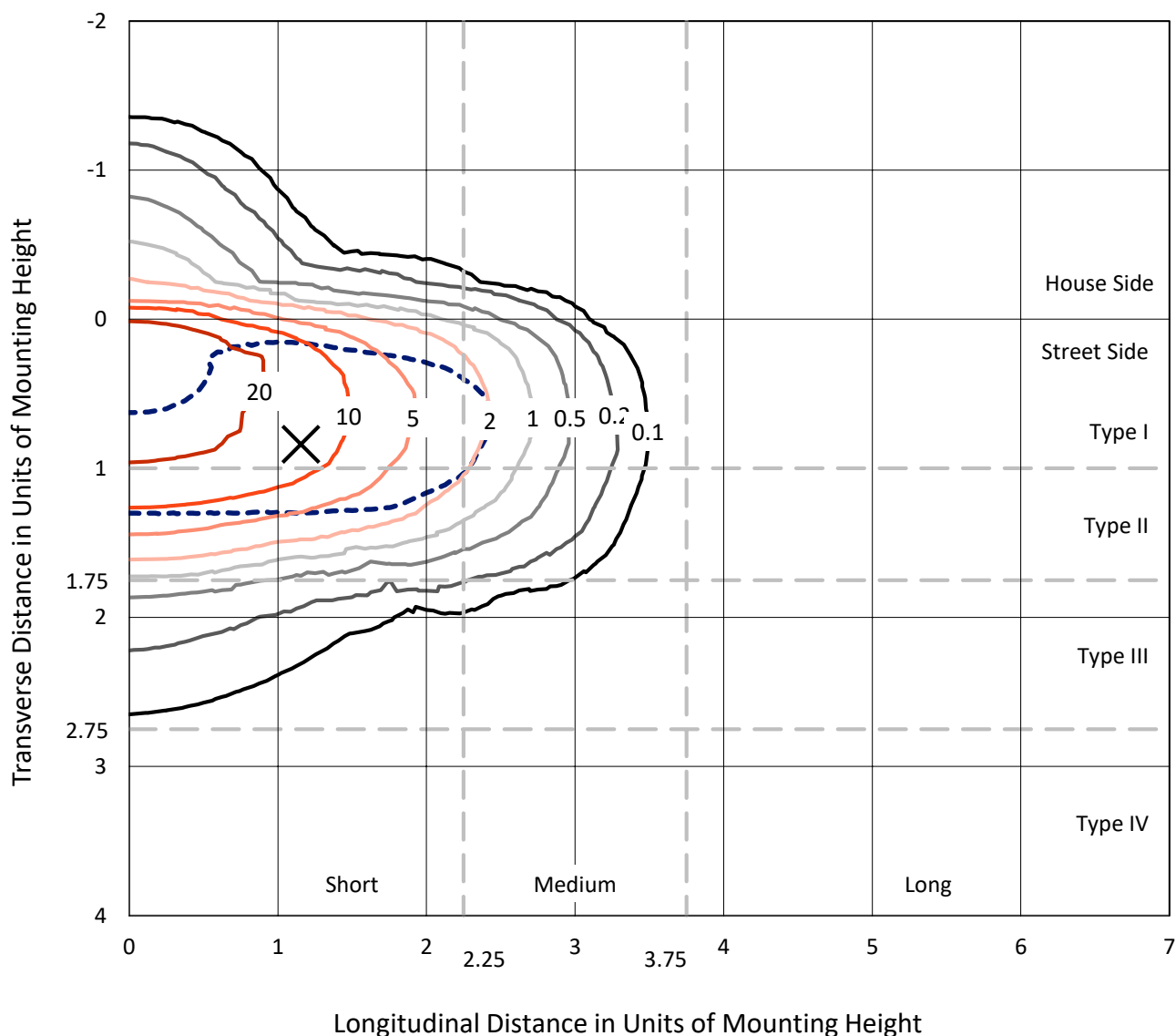
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

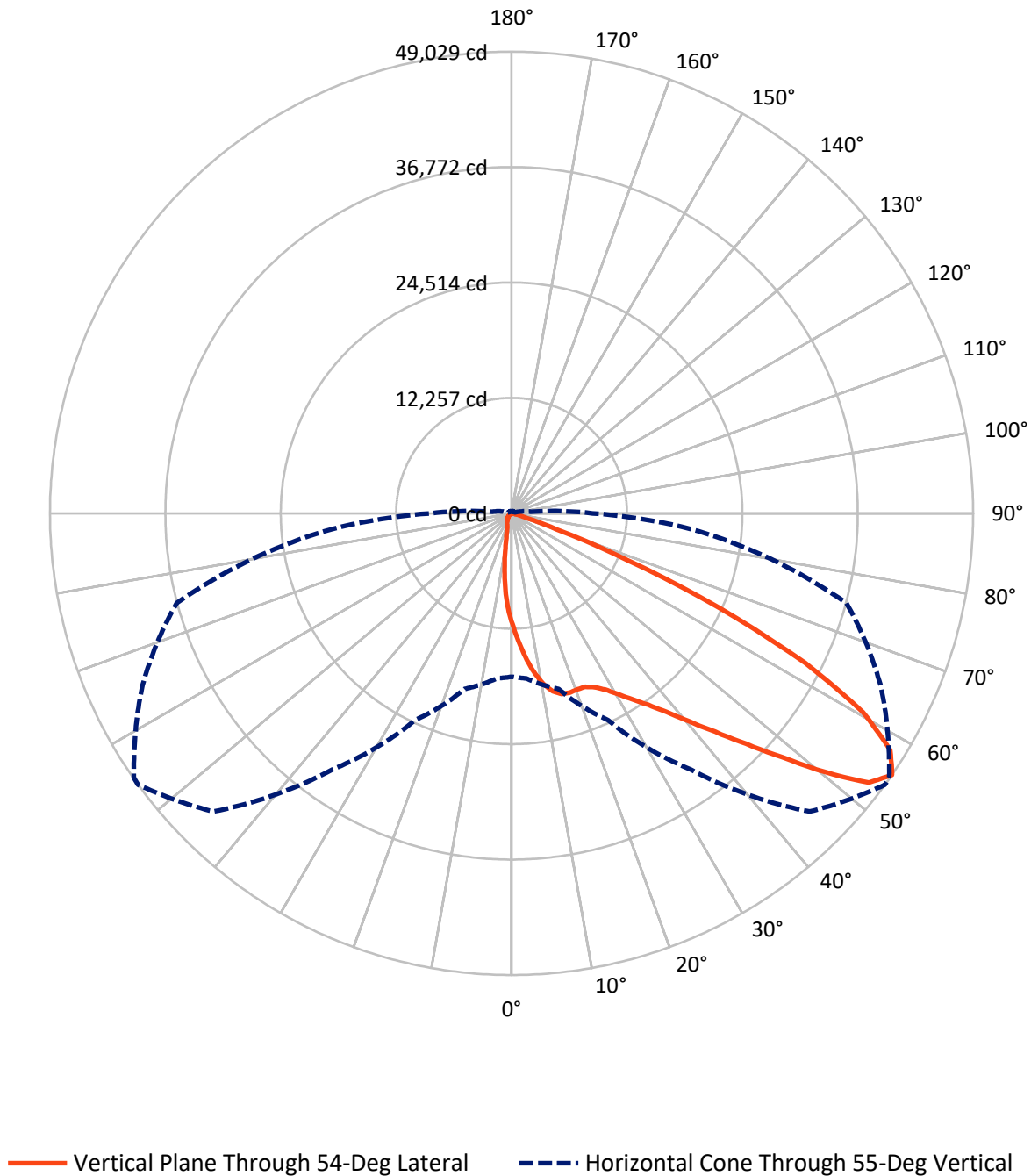
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.9 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	2623.1	0.0	2623.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	49951.9	0.0	49951.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	52575.0	0.0	52575.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1084.3	2.1
10°-20°	2973.8	5.7
20°-30°	5077.2	9.7
30°-40°	8148.1	15.5
40°-50°	13020.6	24.8
50°-60°	13951.9	26.5
60°-70°	7163.3	13.6
70°-80°	1085.1	2.1
80°-90°	70.7	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°	52575.0	100.0
0°-180°	52575.0	100.0

Coefficient of Utilization



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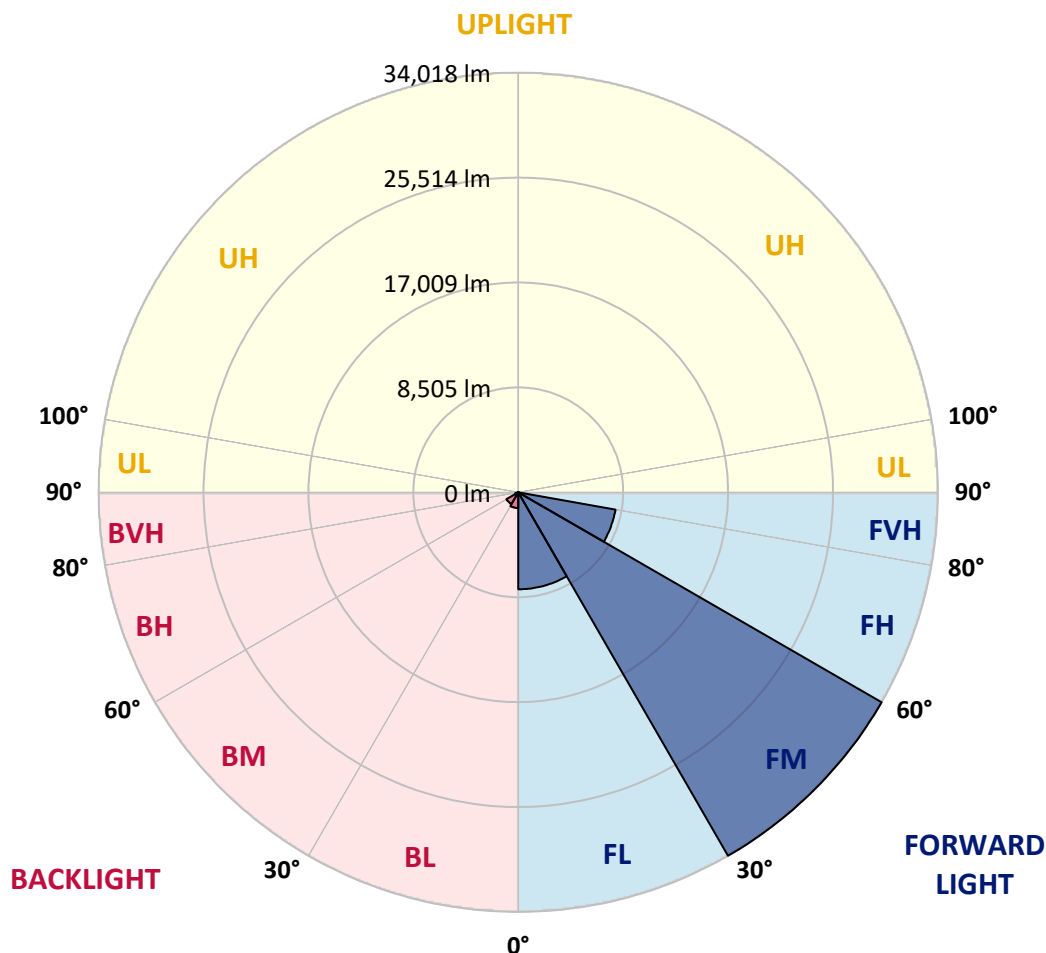
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7859.1	14.9			
FM	(30°-60°)	34018.4	64.7			
FH	(60°-80°)	8006.7	15.2			G4/12000
FVH	(80°-90°)	67.8	0.1			G1/100
BL	(0°-30°)	1276.2	2.4	B3/2500		
BM	(30°-60°)	1102.3	2.1	B2/2500		
BH	(60°-80°)	241.7	0.5	B1/500		G1/500
BVH	(80°-90°)	2.8	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11774.7	11774.7	11774.7	11774.7	11774.7	11774.7	11774.7	11774.7	11774.7	11774.7	11774.7
2.5°	14776.3	14556.0	14562.8	14462.9	14097.4	13811.3	13513.9	13443.5	12980.3	12494.4	12026.7
5°	17330.5	17169.3	17130.7	16937.8	16429.2	15891.1	15314.4	15180.4	14274.5	13280.0	12301.4
7.5°	18642.9	18645.2	18613.4	18543.0	18225.1	17702.9	16999.1	16858.3	15625.4	14133.7	12587.5
10°	18261.4	18347.7	18524.8	18758.7	19001.6	18935.8	18406.8	18279.6	16940.0	15037.4	12905.4
12.5°	17371.4	17382.8	17580.3	17964.0	18663.3	19380.8	19389.9	19346.7	18195.6	15981.9	13255.0
15°	16928.7	16971.8	17044.5	17291.9	17954.9	19103.8	19925.7	19987.0	19346.7	16985.4	13627.4
17.5°	17219.3	17280.6	17219.3	17248.8	17632.5	18665.6	20018.8	20175.5	20352.5	17977.6	13979.3
20°	18007.1	18063.9	17954.9	17834.6	17909.5	18538.4	19952.9	20164.1	21140.4	18858.6	14274.5
22.5°	19069.7	19092.4	18926.7	18729.2	18674.7	18969.8	20007.4	20225.4	21771.6	19655.5	14460.7
25°	20239.0	20259.5	20052.8	19825.8	19696.4	19816.7	20454.7	20618.2	22327.9	20416.1	14567.4
27.5°	21512.8	21530.9	21272.1	20992.8	20843.0	20847.5	21192.6	21367.5	22920.5	21283.4	14653.7
30°	22859.2	22850.1	22611.7	22223.4	22032.7	22028.2	22255.2	22432.3	23778.7	22396.0	14771.7
32.5°	24371.3	24353.1	24014.8	23533.5	23317.8	23349.6	23551.7	23653.8	24843.6	23581.2	14982.9
35°	26362.5	26310.3	25799.4	25202.3	24805.0	24793.6	24963.9	25045.6	26201.3	25016.1	15334.8
37.5°	28946.3	28898.6	28206.1	27338.8	26780.3	26571.4	26773.5	26877.9	28138.0	26857.5	15900.1
40°	31493.8	31446.1	31035.1	30240.5	29380.0	28878.2	29037.1	29148.4	30556.1	29091.6	16613.1
42.5°	33251.1	33292.0	33435.0	33500.9	32694.9	31641.4	31714.0	31829.8	33096.7	31480.2	17428.2
45°	33714.3	33802.9	34611.1	36198.2	36500.2	35678.3	34917.7	34981.2	35678.3	33868.7	18243.3
47.5°	32322.5	32486.0	34045.8	36997.4	39554.0	40135.2	38695.7	38611.7	38155.4	35800.9	18822.2
50°	29159.7	29309.6	31330.3	35696.4	40480.3	44390.1	43223.1	42975.6	40328.2	36956.5	19026.6
52.5°	24582.4	24764.1	26405.6	31600.5	38734.3	46288.2	47509.7	47303.1	41922.1	37047.4	19060.6
55°	17360.1	17580.3	19317.2	24219.2	33201.2	44778.3	49028.7	48967.4	43245.8	36806.7	19133.3
57.5°	9756.2	9915.2	11788.3	15525.5	24316.8	39002.2	47441.6	47848.0	44045.0	36388.9	19242.3
60°	4332.1	4375.2	5344.7	7728.7	14235.9	29806.8	42898.4	43584.1	43359.3	35830.4	19426.2
62.5°	2402.2	2365.8	2365.8	3212.7	6187.0	18452.2	34981.2	36114.2	40432.6	35169.7	19435.3
65°	1882.2	1848.2	1750.5	1764.2	2356.8	8189.6	24223.7	26237.6	34874.5	33233.0	18781.4
67.5°	1596.1	1566.6	1469.0	1430.4	1464.5	2701.9	13309.5	15400.6	26462.4	28199.3	16268.0
70°	1348.7	1328.2	1278.3	1230.6	1144.3	1335.0	5092.7	6514.0	16306.6	18758.7	11104.9
72.5°	1085.3	1076.2	1094.4	1053.5	949.1	890.0	1741.5	2109.3	7324.6	8371.2	4575.0
75°	935.4	930.9	940.0	899.1	781.0	619.8	885.5	967.2	2066.1	2048.0	926.4
77.5°	608.5	615.3	778.8	760.6	672.1	413.2	458.6	495.0	626.7	470.0	281.5
80°	388.3	383.7	395.1	631.2	603.9	315.6	229.3	240.7	302.0	231.6	136.2
82.5°	236.1	231.6	258.8	295.2	304.2	220.2	140.8	143.0	188.4	149.9	72.7
85°	20.4	27.2	156.7	145.3	104.4	68.1	68.1	72.7	99.9	88.5	40.9
87.5°	0.0	0.0	27.2	40.9	22.7	25.0	25.0	27.2	38.6	38.6	20.4
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°	11774.7	11774.7	11774.7	11774.7	11774.7	11774.7	11774.7	11774.7	11774.7	11774.7	11774.7
2.5°	11783.8	11547.6	11070.8	10612.2	10224.0	9849.3	9422.5	9000.2	8802.6	8723.2	8641.4
5°	11804.2	11318.3	10335.2	9345.3	8319.0	7394.9	6607.1	5798.8	5394.7	5217.6	5135.8
7.5°	11831.5	11091.3	9501.9	7840.0	6187.0	4933.7	3839.4	3135.5	2831.3	2783.6	2665.5
10°	11836.0	10816.5	8534.7	6178.0	4148.2	2974.3	2288.6	1925.4	1791.4	1768.7	1730.1
12.5°	11845.1	10491.9	7460.8	4575.0	2765.4	1988.9	1655.2	1534.8	1498.5	1496.2	1496.2
15°	11872.3	10151.3	6346.0	3296.7	1986.7	1575.7	1453.1	1405.4	1391.8	1398.6	1396.3
17.5°	11872.3	9749.4	5251.6	2456.7	1605.2	1416.8	1348.7	1316.9	1312.3	1319.1	1321.4
20°	11786.0	9261.3	4248.1	1911.7	1423.6	1314.6	1253.3	1223.8	1212.4	1217.0	1219.2
22.5°	11579.4	8661.9	3430.7	1582.5	1303.3	1221.5	1155.7	1110.3	1092.1	1094.4	1094.4
25°	11257.0	7951.2	2683.7	1369.1	1205.6	1121.6	1044.4	992.2	980.8	978.6	983.1
27.5°	10843.8	7165.6	2136.5	1205.6	1089.8	1010.4	933.2	890.0	880.9	883.2	885.5
30°	10437.4	6350.5	1684.7	1067.1	960.4	885.5	826.5	806.0	806.0	812.8	815.1
32.5°	10065.0	5567.2	1332.8	946.8	844.6	776.5	742.4	740.2	751.5	756.1	758.3
35°	9744.9	4842.9	1103.5	853.7	753.8	694.8	683.4	692.5	706.1	715.2	717.5
37.5°	9517.8	4195.8	965.0	776.5	683.4	635.7	633.5	651.6	669.8	690.2	694.8
40°	9422.5	3648.7	869.6	708.4	626.7	590.3	583.5	608.5	642.5	672.1	676.6
42.5°	9343.0	3201.4	787.9	642.5	581.2	529.0	526.8	558.5	599.4	628.9	635.7
45°	9274.9	2842.6	712.9	572.2	522.2	454.1	460.9	501.8	533.6	565.3	572.2
47.5°	9134.1	2547.5	631.2	497.2	431.4	388.3	401.9	438.2	463.2	510.9	517.7
50°	8882.1	2306.8	547.2	406.4	351.9	336.0	356.5	381.4	413.2	454.1	458.6
52.5°	8711.8	2125.2	474.5	340.6	290.6	295.2	315.6	324.7	342.8	358.7	354.2
55°	8614.2	2025.3	415.5	295.2	247.5	261.1	265.6	254.3	245.2	229.3	222.5
57.5°	8602.8	1934.4	370.1	256.6	218.0	224.8	208.9	170.3	138.5	120.3	115.8
60°	8584.7	1823.2	333.8	215.7	193.0	183.9	149.9	93.1	65.8	61.3	61.3
62.5°	8387.1	1650.6	306.5	181.6	163.5	138.5	86.3	43.1	36.3	38.6	38.6
65°	7758.2	1410.0	279.3	147.6	129.4	99.9	43.1	25.0	13.6	15.9	15.9
67.5°	6595.7	1123.9	249.8	113.5	97.6	63.6	25.0	11.4	0.0	0.0	0.0
70°	4416.1	697.0	211.2	79.5	63.6	38.6	18.2	2.3	0.0	0.0	0.0
72.5°	1693.8	376.9	170.3	47.7	40.9	27.2	11.4	0.0	0.0	0.0	0.0
75°	381.4	247.5	118.1	34.1	29.5	18.2	4.5	0.0	0.0	0.0	0.0
77.5°	145.3	179.4	68.1	22.7	20.4	11.4	0.0	0.0	0.0	0.0	0.0
80°	70.4	106.7	31.8	13.6	11.4	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	36.3	40.9	13.6	6.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	20.4	6.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	6.8	2.3	2.3	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)