

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: P323144

Luminaire Tested: **GAN-SA0D-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53197 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

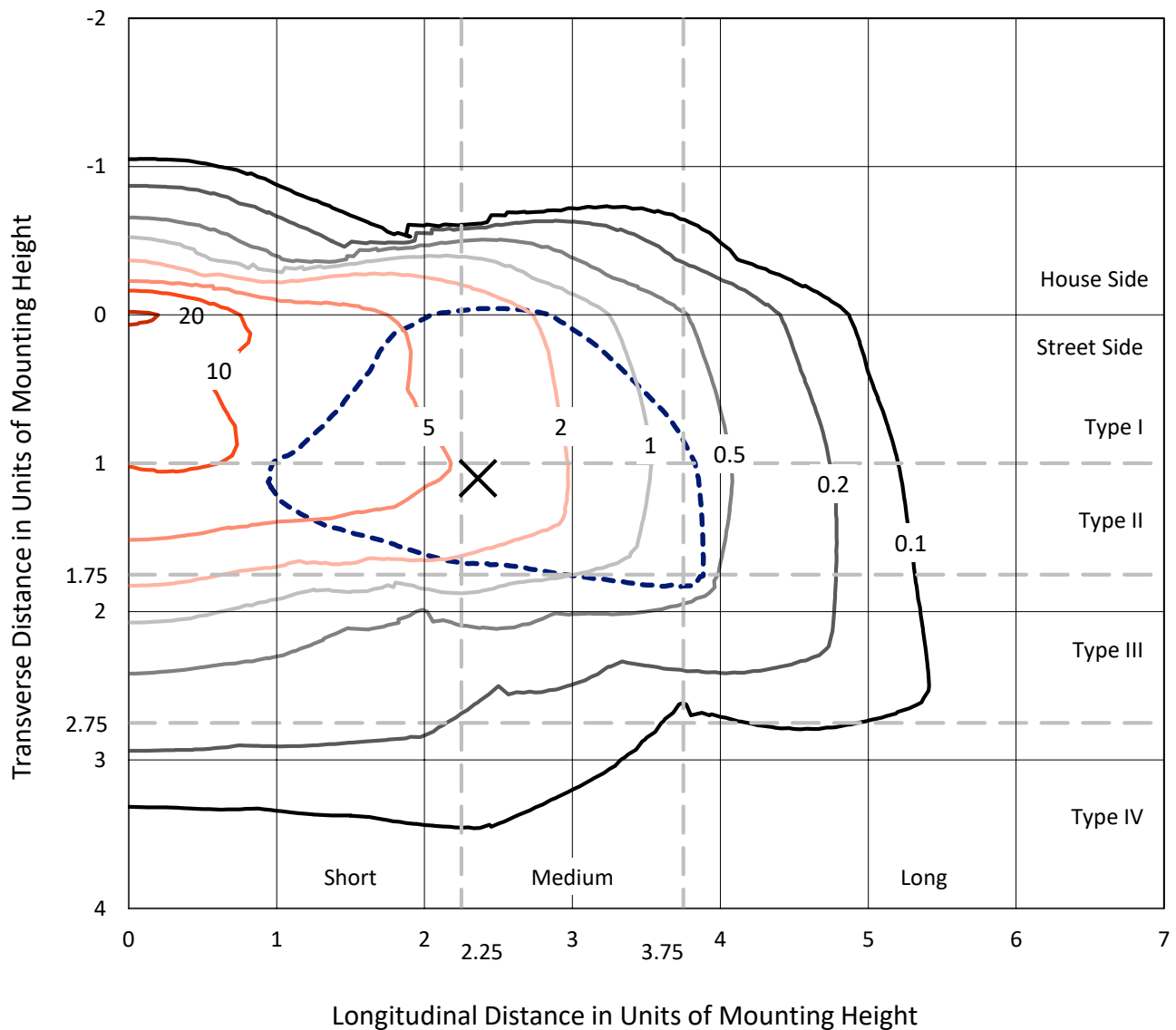
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

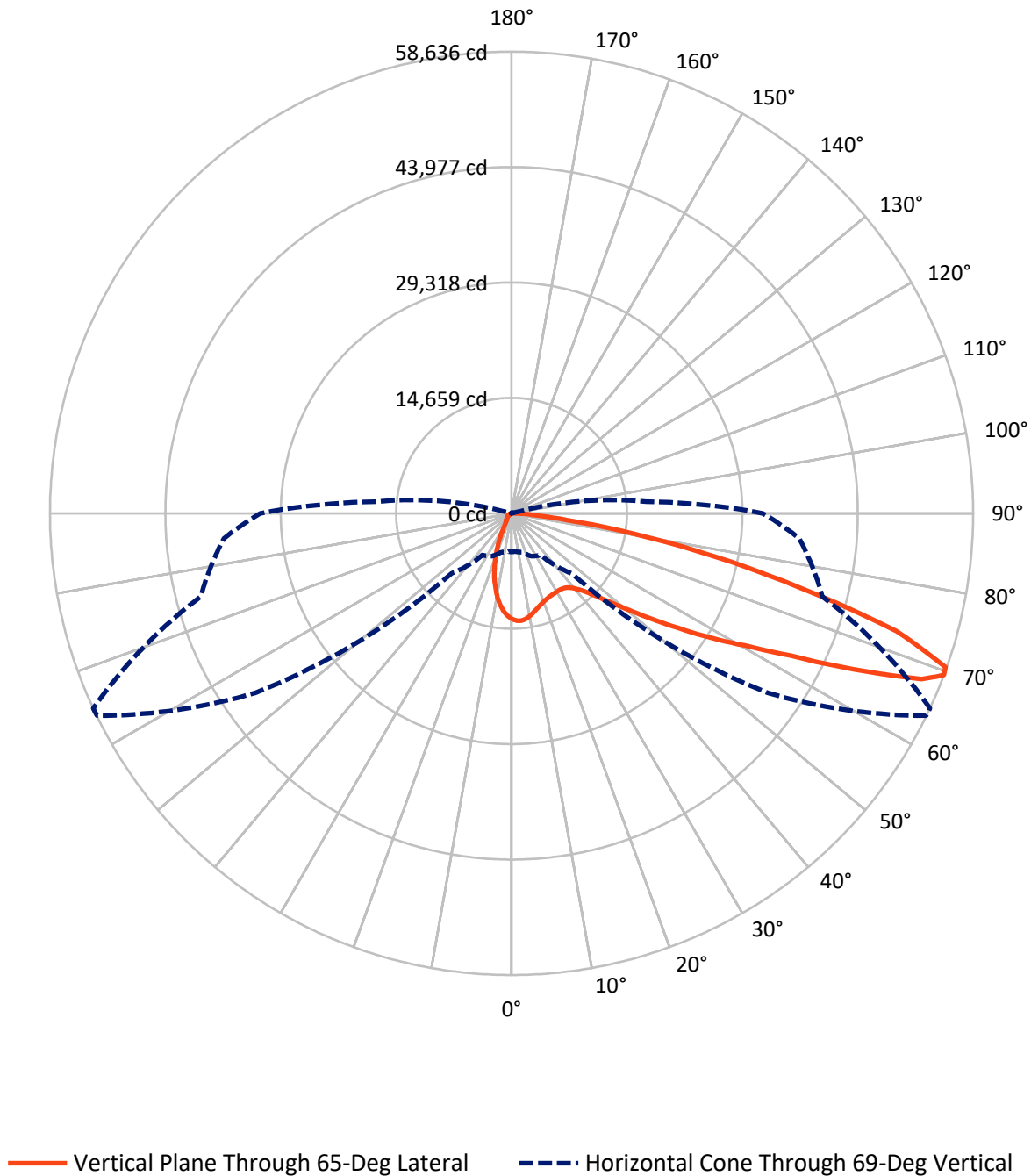
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6270.7	0.0	6270.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	46926.3	0.0	46926.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	53197.0	0.0	53197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1124.1	2.1
10°-20°	2460.7	4.6
20°-30°	3408.2	6.4
30°-40°	4752.1	8.9
40°-50°	7386.4	13.9
50°-60°	11858.0	22.3
60°-70°	13413.3	25.2
70°-80°	7877.8	14.8
80°-90°	916.4	1.7
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°	53197.0	100.0
0°-180°	53197.0	100.0

Coefficient of Utilization



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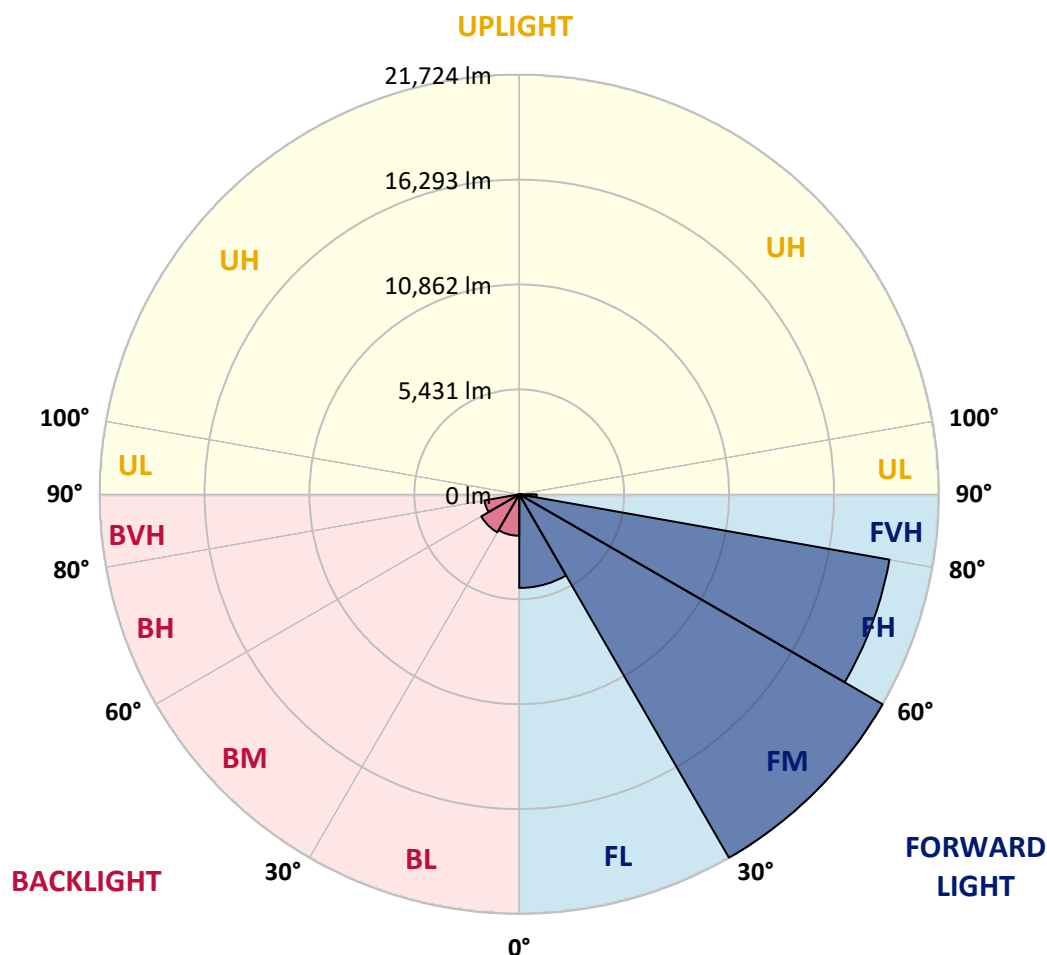
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4847.5	9.1			
FM	(30°-60°)	21724.1	40.8			
FH	(60°-80°)	19458.9	36.6			G5
FVH	(80°-90°)	895.8	1.7			G5
BL	(0°-30°)	2145.6	4.0	B3/2500		
BM	(30°-60°)	2272.3	4.3	B2/2500		
BH	(60°-80°)	1832.2	3.4	B3/2500		G3/2500
BVH	(80°-90°)	20.6	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	13443.0	13443.0	13443.0	13443.0	13443.0	13443.0	13443.0	13443.0	13443.0	13443.0	13443.0
2.5°	13562.3	13528.5	13555.5	13614.1	13643.3	13643.3	13665.8	13638.8	13647.8	13582.5	13488.0
5°	12713.7	12661.9	12736.2	12900.5	13103.1	13276.4	13533.0	13668.1	13681.6	13683.8	13573.5
7.5°	11799.7	11752.5	11862.8	12056.4	12317.5	12639.4	13087.3	13479.0	13501.5	13713.1	13632.1
10°	11056.9	11023.1	11151.5	11358.5	11664.7	12024.8	12574.1	13118.8	13184.1	13652.3	13623.1
12.5°	10467.2	10440.1	10561.7	10800.3	11113.2	11511.6	12085.6	12718.2	12805.9	13515.0	13578.0
15°	10037.2	10032.7	10134.0	10363.6	10710.3	11081.7	11669.2	12346.7	12448.0	13366.4	13571.3
17.5°	9812.1	9818.9	9893.1	10089.0	10386.1	10755.3	11318.0	12033.8	12144.1	13233.6	13605.0
20°	9789.6	9796.4	9836.9	9947.2	10188.0	10514.4	11032.2	11770.5	11885.3	13134.6	13659.1
22.5°	9987.7	9983.2	9994.4	9983.2	10118.2	10365.9	10843.1	11567.9	11700.7	13069.3	13701.8
25°	10368.1	10361.4	10356.9	10273.6	10183.5	10316.3	10764.3	11453.1	11579.1	13022.0	13726.6
27.5°	10897.1	10892.6	10885.8	10748.5	10478.4	10395.1	10773.3	11410.3	11516.1	12983.8	13722.1
30°	11592.7	11624.2	11615.2	11423.8	11002.9	10636.0	10867.8	11387.8	11480.1	12909.5	13674.8
32.5°	12409.8	12472.8	12522.3	12317.5	11790.7	11113.2	11086.2	11412.6	11480.1	12853.2	13589.3
35°	13258.4	13339.4	13521.8	13449.7	12756.4	11831.3	11462.1	11561.1	11617.4	12884.7	13548.8
37.5°	14093.5	14190.3	14586.5	14795.8	14021.5	12781.2	12047.4	11928.1	11957.3	13076.1	13593.8
40°	15063.7	15210.0	15811.0	16148.7	15531.9	14053.0	12923.0	12558.3	12569.6	13497.0	13803.1
42.5°	16337.8	16488.6	17139.1	17668.1	17233.7	15660.2	14111.5	13521.8	13510.5	14284.8	14296.1
45°	17891.0	18048.5	18721.6	19309.1	19113.2	17564.6	15633.2	14928.6	14915.1	15527.4	15230.3
47.5°	19651.2	19806.6	20407.6	21013.1	21224.7	19788.5	17571.3	16848.7	16817.2	17253.9	16673.2
50°	21161.7	21263.0	21816.7	22631.6	23586.0	22521.3	19982.1	19286.6	19252.8	19547.7	18791.4
52.5°	21710.9	21769.4	22332.2	23473.4	25855.0	26221.9	23149.3	22253.4	22228.6	22356.9	21611.9
55°	20598.9	20704.7	21395.8	23088.5	27084.0	30404.3	27147.1	25927.0	25740.2	25463.3	24560.7
57.5°	17569.1	17737.9	18480.7	20731.7	26510.0	33722.2	33022.2	30082.4	29807.7	28115.0	26958.0
60°	13163.9	13370.9	13987.7	16416.5	23446.4	34904.0	39442.0	34712.7	34093.7	30226.4	29161.7
62.5°	9033.3	9136.8	9555.5	11138.0	17267.4	32968.2	44812.9	40914.2	39784.2	32522.5	31545.5
65°	6899.3	6935.3	7106.4	7651.2	10282.6	26780.2	46949.1	49096.6	47730.2	35268.7	34019.4
67.5°	5560.0	5530.7	5767.1	6545.9	6885.8	16337.8	44457.3	56837.8	56198.5	38940.1	36509.0
69°	4902.7	4862.2	5103.0	6007.9	6467.1	10800.3	39743.7	58595.8	58636.3	40878.2	36680.1
70°	4412.0	4439.0	4677.6	5688.3	6325.3	8477.3	35241.7	58147.8	58467.5	41603.0	35653.6
72.5°	2946.6	3018.6	3498.1	4722.6	6082.2	6415.4	21278.7	49897.9	51127.0	39971.0	30588.8
75°	1661.2	1715.3	2284.8	3561.1	5731.0	6109.2	11239.2	36761.1	37949.6	33425.1	23588.2
77.5°	814.9	844.1	1292.1	2298.3	4792.4	5821.1	6374.8	24970.3	26327.7	21816.7	13341.7
80°	344.4	360.2	646.0	1418.1	3426.0	5555.5	4733.9	15367.6	15536.4	8547.0	3554.3
82.5°	132.8	137.3	272.4	884.6	2176.7	4330.9	3959.5	7286.5	7110.9	1609.5	810.4
85°	15.8	18.0	99.0	531.2	1211.0	2228.5	3216.7	3140.1	2906.0	319.6	416.4
87.5°	0.0	0.0	6.8	162.1	360.2	1044.5	1672.5	1303.3	1175.0	103.5	216.1
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°	13443.0	13443.0	13443.0	13443.0	13443.0	13443.0	13443.0	13443.0	13443.0	13443.0	13443.0
2.5°	13409.2	13386.7	13265.1	13089.6	12923.0	12715.9	12517.8	12398.5	12304.0	12240.9	12315.2
5°	13445.2	13346.2	12977.0	12504.3	12040.6	11518.4	11032.2	10620.2	10458.1	10278.1	10359.1
7.5°	13434.0	13247.1	12583.1	11741.2	10890.3	10010.2	9177.3	8535.8	8202.6	7876.3	7959.5
10°	13377.7	13062.6	12056.4	10809.3	9535.2	8270.2	7088.4	6190.3	5688.3	5233.6	5298.9
12.5°	13253.9	12814.9	11435.1	9742.3	8038.3	6370.3	4986.0	3835.7	3218.9	2946.6	2980.3
15°	13179.6	12574.1	10777.8	8661.9	6440.1	4436.7	3047.9	2266.8	1985.4	1895.3	1906.6
17.5°	13143.6	12342.2	10098.0	7426.1	4805.9	2825.0	1969.6	1737.8	1677.0	1661.2	1665.7
20°	13107.6	12108.1	9397.9	6203.8	3311.2	1899.8	1618.5	1550.9	1528.4	1508.2	1512.7
22.5°	13046.8	11883.0	8646.1	4965.7	2233.0	1541.9	1458.6	1393.4	1346.1	1321.3	1325.8
25°	12972.5	11646.7	7878.5	3698.4	1629.7	1375.4	1296.6	1204.3	1148.0	1103.0	1105.2
27.5°	12853.2	11356.3	7086.1	2692.2	1368.6	1231.3	1125.5	1024.2	929.7	877.9	877.9
30°	12686.6	11027.7	6206.0	1926.9	1226.8	1089.5	961.2	835.1	733.8	686.6	682.1
32.5°	12502.1	10685.5	5316.9	1460.9	1114.2	956.7	810.4	677.6	587.5	549.2	547.0
35°	12344.5	10316.3	4430.0	1224.5	1001.7	828.4	668.5	556.0	484.0	452.5	450.2
37.5°	12243.2	9947.2	3565.6	1094.0	900.4	709.1	560.5	459.2	407.4	382.7	380.4
40°	12227.4	9672.5	2775.5	994.9	805.9	603.3	468.2	389.4	342.2	315.1	312.9
42.5°	12432.3	9515.0	2129.4	911.7	709.1	511.0	398.4	333.1	283.6	256.6	254.4
45°	12970.3	9564.5	1638.7	837.4	612.3	432.2	337.7	276.9	231.9	211.6	207.1
47.5°	13951.7	9906.7	1303.3	763.1	520.0	366.9	288.1	229.6	191.3	171.1	168.8
50°	15698.5	10710.3	1089.5	682.1	434.4	312.9	238.6	186.8	155.3	137.3	135.1
52.5°	18017.0	12141.9	972.4	603.3	360.2	265.6	195.8	148.6	121.6	108.0	105.8
55°	20574.1	13875.2	895.9	517.7	294.9	220.6	155.3	117.1	94.5	83.3	78.8
57.5°	23070.5	15376.6	823.9	434.4	245.4	180.1	123.8	92.3	74.3	63.0	60.8
60°	25364.3	16756.4	740.6	348.9	200.3	141.8	96.8	72.0	58.5	47.3	47.3
62.5°	27820.1	17823.4	625.8	272.4	164.3	108.0	78.8	65.3	47.3	40.5	38.3
65°	30422.3	18615.8	490.7	211.6	128.3	81.0	65.3	67.5	38.3	29.3	27.0
67.5°	32344.6	18458.2	362.4	166.6	99.0	63.0	63.0	72.0	33.8	22.5	20.3
69°	31921.4	17177.4	303.9	144.1	85.5	54.0	58.5	72.0	31.5	20.3	18.0
70°	30694.6	15759.3	267.9	128.3	76.5	49.5	56.3	69.8	29.3	20.3	18.0
72.5°	25562.4	11869.5	209.3	96.8	60.8	40.5	47.3	60.8	29.3	20.3	15.8
75°	19228.0	7597.1	159.8	69.8	45.0	31.5	36.0	45.0	29.3	18.0	15.8
77.5°	10462.7	2739.5	114.8	47.3	31.5	24.8	24.8	33.8	27.0	13.5	9.0
80°	2689.9	688.8	72.0	31.5	24.8	18.0	15.8	22.5	15.8	2.3	0.0
82.5°	664.0	155.3	38.3	22.5	18.0	6.8	6.8	11.3	6.8	0.0	0.0
85°	364.7	76.5	24.8	15.8	9.0	0.0	0.0	2.3	0.0	0.0	0.0
87.5°	186.8	22.5	6.8	4.5	2.3	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)