

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: P324941

Luminaire Tested: **GAN-SA7D-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324941
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-SA7D-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 33027 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

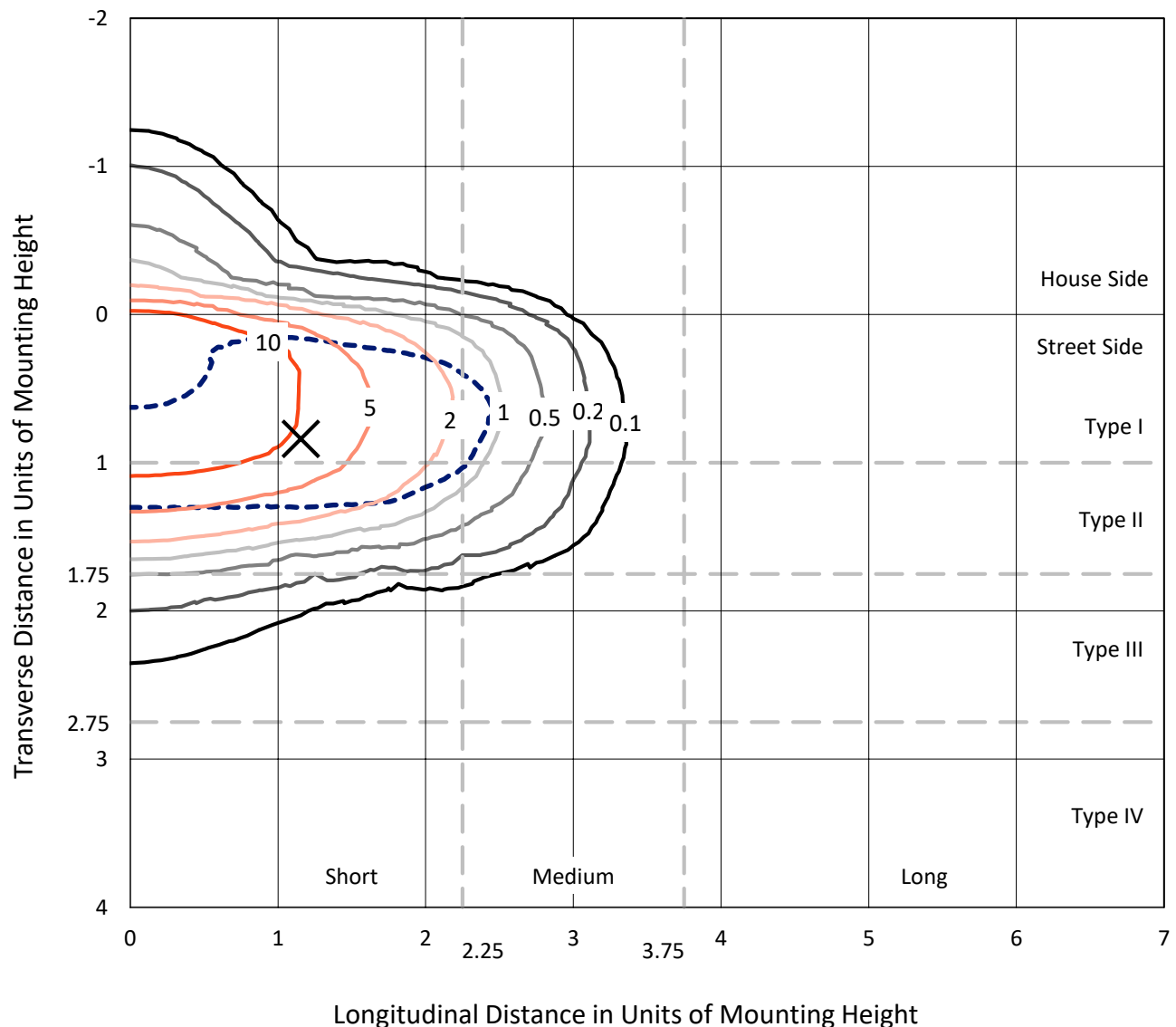
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

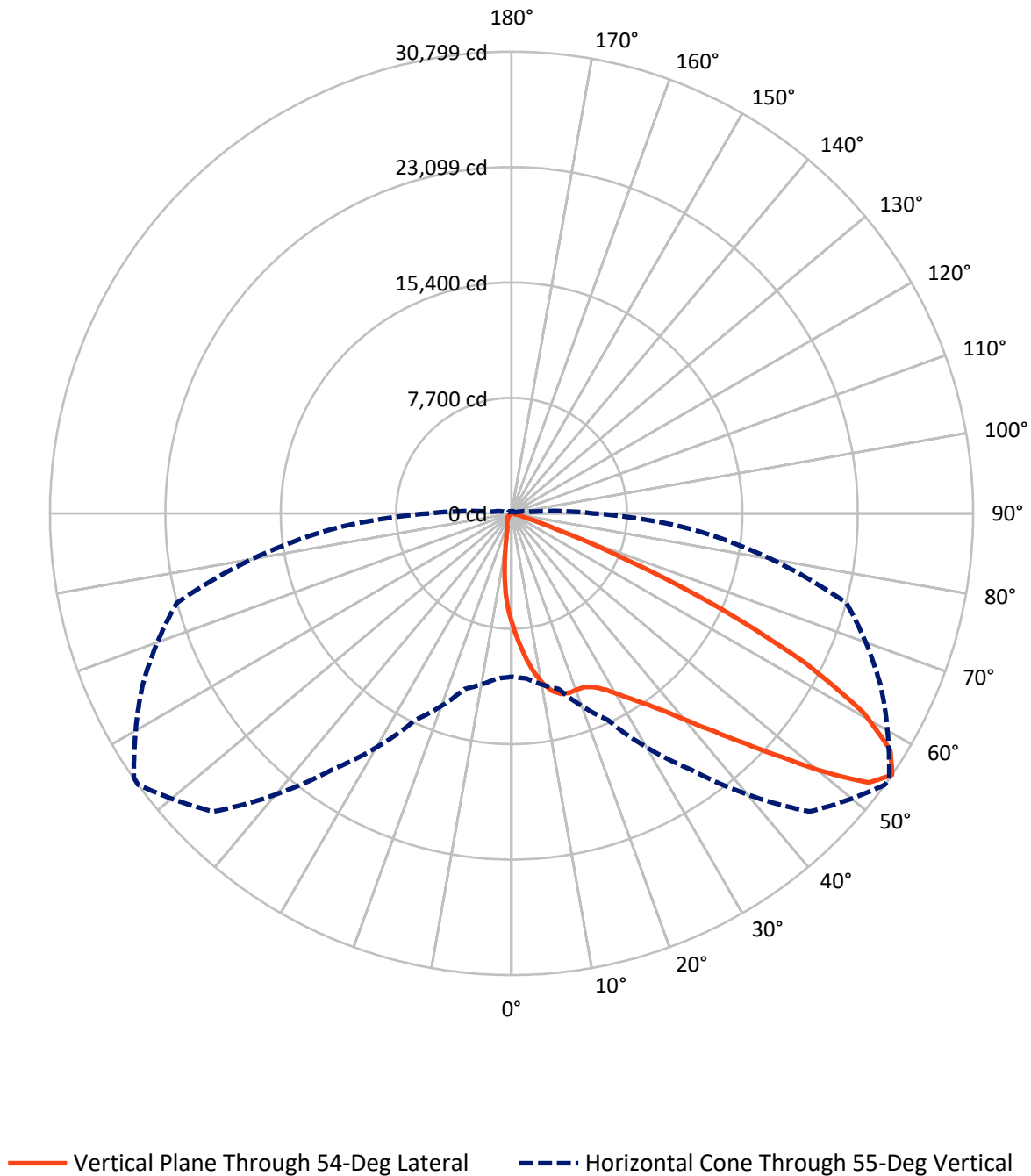
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 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	1647.8	0.0	1647.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	31379.2	0.0	31379.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	33027.0	0.0	33027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.1	2.1
10°-20°	1868.1	5.7
20°-30°	3189.4	9.7
30°-40°	5118.5	15.5
40°-50°	8179.4	24.8
50°-60°	8764.5	26.5
60°-70°	4499.9	13.6
70°-80°	681.6	2.1
80°-90°	44.4	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°	33027.0	100.0
0°-180°	33027.0	100.0

Coefficient of Utilization



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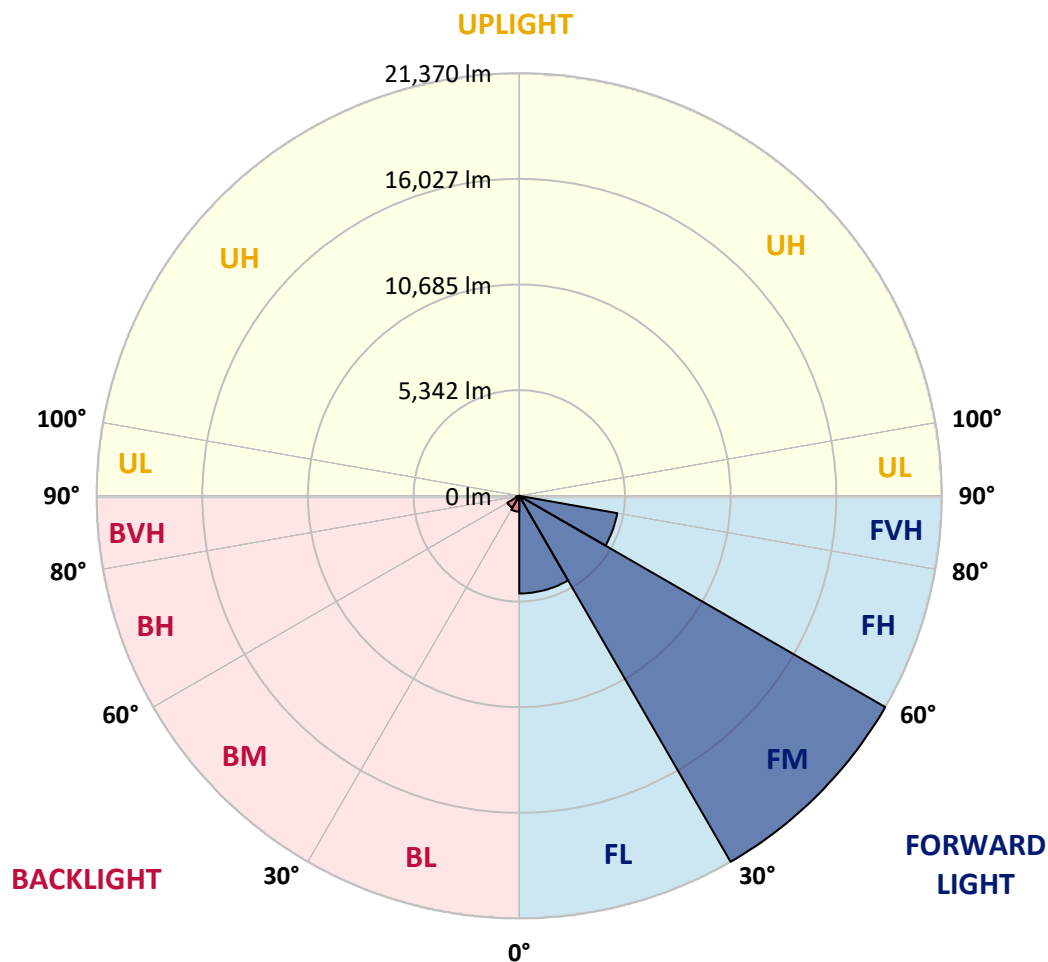
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4937.0	14.9			
FM	(30°-60°)	21369.9	64.7			
FH	(60°-80°)	5029.7	15.2			G3/7500
FVH	(80°-90°)	42.6	0.1			G1/100
BL	(0°-30°)	801.7	2.4	B2/1000		
BM	(30°-60°)	692.4	2.1	B1/1000		
BH	(60°-80°)	151.9	0.5	B1/500		G1/500
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7
2.5°	9282.3	9143.9	9148.2	9085.4	8855.8	8676.1	8489.3	8445.0	8154.1	7848.9	7555.0
5°	10886.8	10785.6	10761.3	10640.1	10320.6	9982.6	9620.3	9536.2	8967.1	8342.4	7727.6
7.5°	11711.2	11712.7	11692.7	11648.5	11448.8	11120.8	10678.6	10590.2	9815.7	8878.6	7907.3
10°	11471.6	11525.8	11637.1	11784.0	11936.6	11895.2	11562.9	11483.0	10641.5	9446.3	8107.0
12.5°	10912.5	10919.7	11043.7	11284.8	11724.1	12174.8	12180.5	12153.4	11430.3	10039.6	8326.7
15°	10634.4	10661.5	10707.1	10862.6	11279.1	12000.8	12517.1	12555.6	12153.4	10670.1	8560.6
17.5°	10817.0	10855.5	10817.0	10835.5	11076.5	11725.5	12575.6	12674.0	12785.2	11293.3	8781.6
20°	11311.9	11347.5	11279.1	11203.5	11250.5	11645.6	12534.2	12666.9	13280.2	11846.7	8967.1
22.5°	11979.4	11993.6	11889.5	11765.4	11731.2	11916.6	12568.4	12705.4	13676.7	12347.4	9084.0
25°	12713.9	12726.8	12597.0	12454.3	12373.0	12448.6	12849.4	12952.1	14026.1	12825.2	9151.1
27.5°	13514.1	13525.5	13362.9	13187.4	13093.3	13096.2	13313.0	13422.8	14398.4	13370.0	9205.3
30°	14359.9	14354.1	14204.4	13960.5	13840.7	13837.8	13980.5	14091.7	14937.5	14068.9	9279.4
32.5°	15309.8	15298.4	15085.8	14783.5	14648.0	14667.9	14794.9	14859.1	15606.4	14813.4	9412.1
35°	16560.6	16527.8	16206.9	15831.8	15582.2	15575.1	15682.0	15733.4	16459.3	15714.8	9633.1
37.5°	18183.7	18153.8	17718.8	17173.9	16823.1	16691.8	16818.8	16884.4	17676.0	16871.5	9988.3
40°	19784.0	19754.1	19495.9	18996.7	18456.1	18140.9	18240.8	18310.7	19195.0	18275.0	10436.1
42.5°	20888.0	20913.6	21003.5	21044.9	20538.5	19876.7	19922.4	19995.1	20791.0	19775.5	10948.2
45°	21178.9	21234.6	21742.3	22739.3	22929.0	22412.7	21934.9	21974.8	22412.7	21275.9	11460.2
47.5°	20304.6	20407.3	21387.2	23241.3	24847.3	25212.5	24308.2	24255.4	23968.7	22489.7	11823.9
50°	18317.8	18411.9	19681.3	22424.1	25429.3	27885.3	27152.2	26996.8	25333.7	23215.7	11952.3
52.5°	15442.4	15556.5	16587.7	19851.1	24332.4	29077.7	29845.0	29715.3	26335.0	23272.7	11973.7
55°	10905.4	11043.7	12134.8	15214.2	20856.6	28129.2	30799.2	30760.7	27166.5	23121.5	12019.3
57.5°	6128.8	6228.6	7405.3	9752.9	15275.5	24500.8	29802.3	30057.6	27668.5	22859.1	12087.8
60°	2721.4	2748.5	3357.5	4855.1	8942.8	18724.3	26948.3	27379.0	27237.8	22508.2	12203.3
62.5°	1509.0	1486.2	1486.2	2018.2	3886.6	11591.4	21974.8	22686.5	25399.3	22093.2	12209.0
65°	1182.4	1161.0	1099.7	1108.2	1480.5	5144.6	15217.1	16482.2	21907.8	20876.6	11798.2
67.5°	1002.7	984.1	922.8	898.6	920.0	1697.3	8360.9	9674.5	16623.4	17714.5	10219.3
70°	847.2	834.4	803.0	773.0	718.8	838.7	3199.2	4092.0	10243.6	11784.0	6976.0
72.5°	681.8	676.1	687.5	661.8	596.2	559.1	1094.0	1325.0	4601.2	5258.7	2874.0
75°	587.6	584.8	590.5	564.8	490.6	389.4	556.3	607.6	1297.9	1286.5	581.9
77.5°	382.2	386.5	489.2	477.8	422.2	259.6	288.1	310.9	393.7	295.2	176.9
80°	243.9	241.0	248.2	396.5	379.4	198.3	144.1	151.2	189.7	145.5	85.6
82.5°	148.3	145.5	162.6	185.4	191.1	138.3	88.4	89.9	118.4	94.1	45.6
85°	12.8	17.1	98.4	91.3	65.6	42.8	42.8	45.6	62.8	55.6	25.7
87.5°	0.0	0.0	17.1	25.7	14.3	15.7	15.7	17.1	24.2	24.2	12.8
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°	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7	7396.7
2.5°	7402.4	7254.1	6954.6	6666.5	6422.6	6187.2	5919.1	5653.8	5529.7	5479.8	5428.4
5°	7415.3	7110.0	6492.5	5870.6	5225.9	4645.4	4150.5	3642.7	3388.9	3277.6	3226.3
7.5°	7432.4	6967.4	5969.0	4925.0	3886.6	3099.3	2411.9	1969.7	1778.6	1748.6	1674.5
10°	7435.2	6794.8	5361.4	3880.9	2605.8	1868.4	1437.7	1209.5	1125.3	1111.1	1086.8
12.5°	7440.9	6590.9	4686.8	2874.0	1737.2	1249.4	1039.8	964.2	941.3	939.9	939.9
15°	7458.1	6376.9	3986.5	2071.0	1248.0	989.8	912.8	882.9	874.3	878.6	877.2
17.5°	7458.1	6124.5	3299.0	1543.2	1008.4	890.0	847.2	827.2	824.4	828.7	830.1
20°	7403.9	5817.8	2668.6	1200.9	894.3	825.8	787.3	768.8	761.6	764.5	765.9
22.5°	7274.1	5441.3	2155.1	994.1	818.7	767.3	726.0	697.5	686.0	687.5	687.5
25°	7071.5	4994.9	1685.9	860.1	757.4	704.6	656.1	623.3	616.2	614.7	617.6
27.5°	6811.9	4501.4	1342.1	757.4	684.6	634.7	586.2	559.1	553.4	554.8	556.3
30°	6556.6	3989.3	1058.3	670.4	603.3	556.3	519.2	506.3	506.3	510.6	512.0
32.5°	6322.7	3497.3	837.2	594.8	530.6	487.8	466.4	465.0	472.1	475.0	476.4
35°	6121.6	3042.3	693.2	536.3	473.5	436.4	429.3	435.0	443.6	449.3	450.7
37.5°	5979.0	2635.8	606.2	487.8	429.3	399.4	397.9	409.3	420.8	433.6	436.4
40°	5919.1	2292.0	546.3	445.0	393.7	370.8	366.6	382.2	403.6	422.2	425.0
42.5°	5869.2	2011.1	494.9	403.6	365.1	332.3	330.9	350.9	376.5	395.1	399.4
45°	5826.4	1785.7	447.9	359.4	328.0	285.3	289.5	315.2	335.2	355.1	359.4
47.5°	5738.0	1600.3	396.5	312.4	271.0	243.9	252.5	275.3	291.0	320.9	325.2
50°	5579.6	1449.1	343.7	255.3	221.1	211.1	223.9	239.6	259.6	285.3	288.1
52.5°	5472.7	1335.0	298.1	213.9	182.6	185.4	198.3	204.0	215.4	225.4	222.5
55°	5411.3	1272.2	261.0	185.4	155.5	164.0	166.9	159.7	154.0	144.1	139.8
57.5°	5404.2	1215.2	232.5	161.2	136.9	141.2	131.2	107.0	87.0	75.6	72.7
60°	5392.8	1145.3	209.7	135.5	121.2	115.5	94.1	58.5	41.4	38.5	38.5
62.5°	5268.7	1036.9	192.5	114.1	102.7	87.0	54.2	27.1	22.8	24.2	24.2
65°	4873.6	885.7	175.4	92.7	81.3	62.8	27.1	15.7	8.6	10.0	10.0
67.5°	4143.4	706.0	156.9	71.3	61.3	39.9	15.7	7.1	0.0	0.0	0.0
70°	2774.1	437.9	132.6	49.9	39.9	24.2	11.4	1.4	0.0	0.0	0.0
72.5°	1064.0	236.8	107.0	30.0	25.7	17.1	7.1	0.0	0.0	0.0	0.0
75°	239.6	155.5	74.2	21.4	18.5	11.4	2.9	0.0	0.0	0.0	0.0
77.5°	91.3	112.7	42.8	14.3	12.8	7.1	0.0	0.0	0.0	0.0	0.0
80°	44.2	67.0	20.0	8.6	7.1	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	22.8	25.7	8.6	4.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.8	12.8	4.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	4.3	1.4	1.4	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)