

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: P318580

Luminaire Tested: **GAN-SA6D-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36885 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

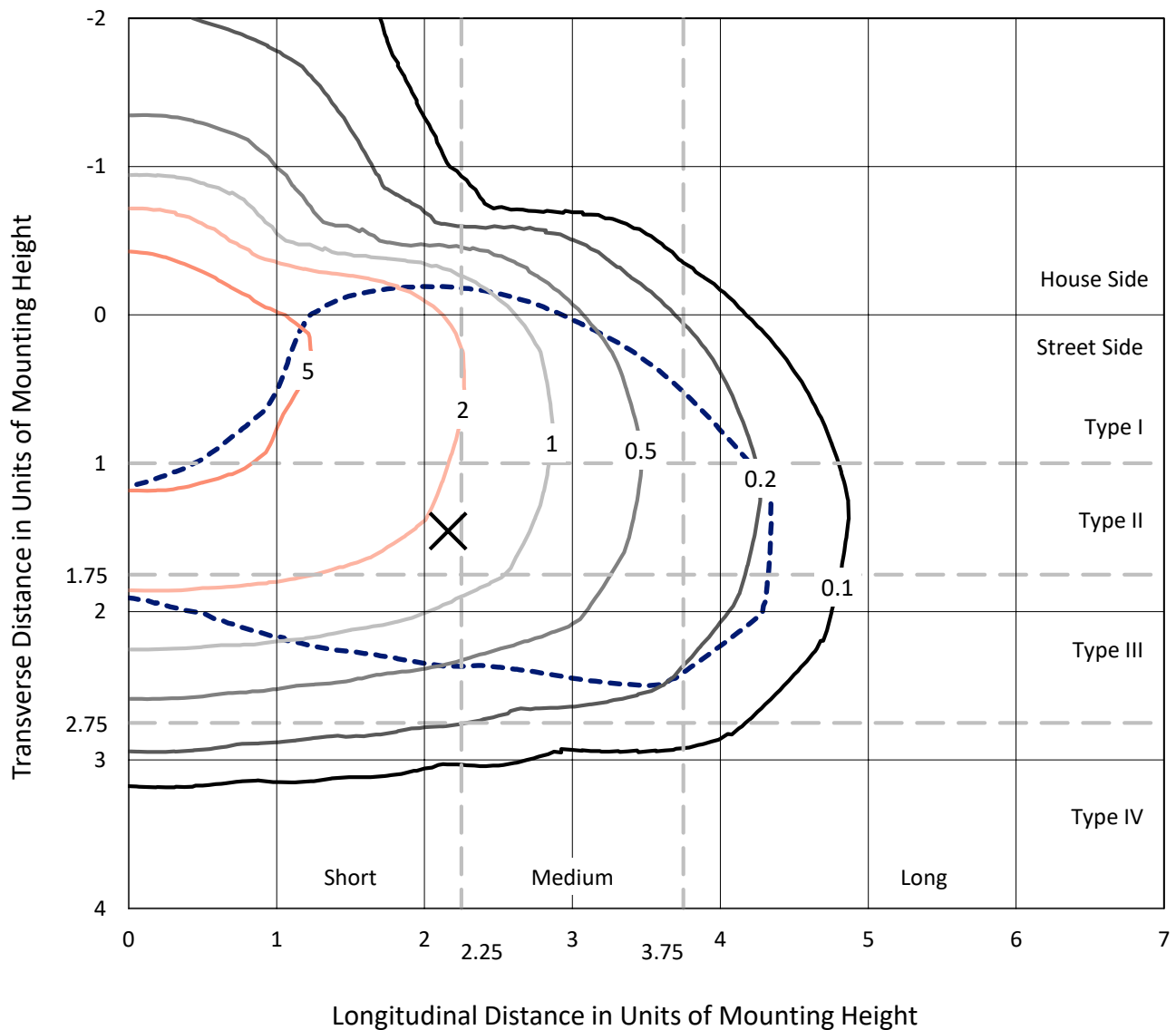
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318580
CATALOG NUMBER: GAN-SA6D-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

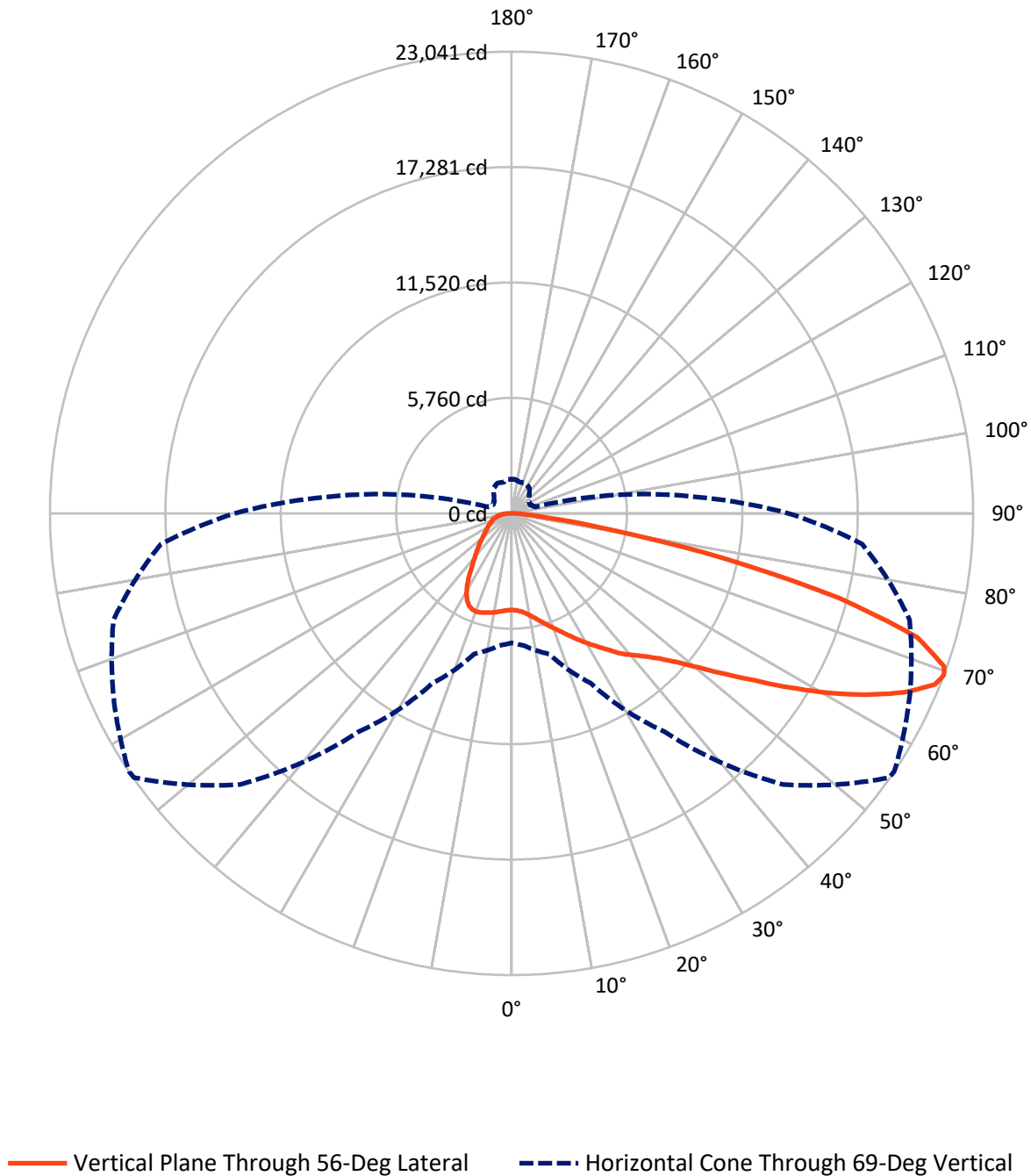
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type III - Short - N/A

REPORT NUMBER: P318580
CATALOG NUMBER: GAN-SA6D-830-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8214.2	0.0	8214.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	28670.8	0.0	28670.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	36885.0	0.0	36885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.6	1.3
10°-20°	1523.0	4.1
20°-30°	2658.5	7.2
30°-40°	3818.8	10.4
40°-50°	5285.0	14.3
50°-60°	7743.3	21.0
60°-70°	9440.6	25.6
70°-80°	5219.3	14.2
80°-90°	722.9	2.0
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°	36885.0	100.0
0°-180°	36885.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318580

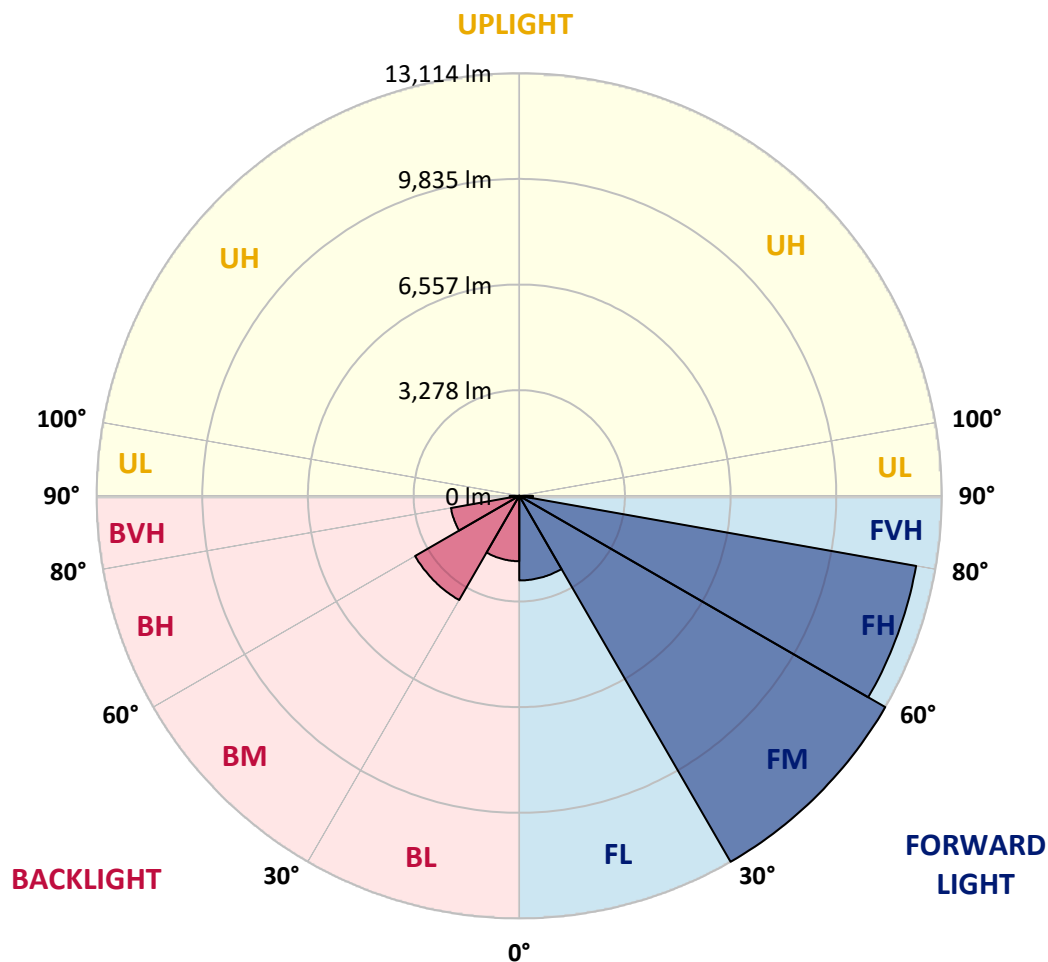
CATALOG NUMBER: GAN-SA6D-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2625.1	7.1			
FM	(30°-60°)	13114.0	35.6			
FH	(60°-80°)	12505.9	33.9			G5
FVH	(80°-90°)	425.8	1.2			G3/500
BL	(0°-30°)	2029.9	5.5	B3/2500		
BM	(30°-60°)	3733.2	10.1	B3/5000		
BH	(60°-80°)	2154.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	297.1	0.8			G3/500
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 Short





REPORT NUMBER: P318580

CATALOG NUMBER: GAN-SA6D-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2
2.5°	4852.7	4857.7	4853.9	4864.1	4852.7	4860.3	4853.9	4853.9	4850.1	4838.7	4826.0
5°	4928.9	4939.1	4932.7	4942.9	4928.9	4931.4	4920.0	4920.0	4908.6	4884.4	4859.0
7.5°	5048.3	5059.8	5054.7	5064.9	5045.8	5045.8	5030.5	5029.3	5006.4	4967.0	4937.8
10°	5190.7	5205.9	5200.8	5216.1	5200.8	5205.9	5190.7	5190.7	5160.2	5104.2	5067.4
12.5°	5397.8	5416.8	5402.9	5401.6	5395.2	5405.4	5392.7	5390.1	5362.2	5285.9	5235.1
15°	5674.8	5695.1	5665.9	5663.3	5627.8	5623.9	5623.9	5620.1	5602.3	5510.9	5427.0
17.5°	5993.7	6000.1	5974.6	5934.0	5888.2	5859.0	5855.2	5865.4	5865.4	5758.6	5625.2
20°	6306.3	6317.7	6297.4	6251.7	6193.2	6150.0	6119.5	6139.8	6138.6	6011.5	5822.2
22.5°	6646.8	6673.5	6643.0	6584.6	6515.9	6467.7	6414.3	6432.1	6433.4	6277.1	6015.3
25°	7087.7	7063.6	7044.5	6962.0	6864.1	6814.6	6765.0	6782.8	6777.7	6563.0	6214.8
27.5°	7477.8	7482.9	7457.5	7369.8	7256.7	7147.5	7144.9	7156.4	7137.3	6860.3	6402.9
30°	7931.5	7934.0	7898.4	7819.6	7696.4	7555.4	7522.3	7541.4	7500.7	7142.4	6601.1
32.5°	8382.6	8395.3	8355.9	8260.6	8161.5	7989.9	7923.8	7936.5	7834.9	7430.8	6805.7
35°	8777.7	8795.5	8782.8	8719.3	8611.3	8463.9	8385.1	8377.5	8251.7	7784.1	7076.3
37.5°	9180.5	9197.0	9183.1	9129.7	9086.5	8930.2	8888.3	8888.3	8669.7	8144.9	7420.7
40°	9594.8	9620.2	9603.7	9530.0	9493.1	9422.0	9321.6	9297.4	9061.1	8578.2	7982.3
42.5°	9979.8	10012.8	10078.9	10035.7	9960.7	9970.9	9768.8	9756.1	9583.3	9218.6	8687.5
45°	10526.2	10574.4	10686.3	10653.2	10638.0	10582.1	10341.9	10330.5	10264.4	10080.2	9563.0
47.5°	11122.1	11188.2	11390.2	11396.6	11560.5	11455.0	11128.4	11089.1	11104.3	11111.9	10631.6
50°	11671.0	11743.4	12075.1	12231.4	12617.7	12640.5	12118.3	12082.7	12142.4	12317.8	11876.9
52.5°	12109.4	12200.9	12615.1	13098.0	13760.0	13948.0	13336.9	13310.2	13354.6	13657.1	13284.8
55°	12430.9	12530.0	12981.1	13860.4	14917.6	15249.2	14739.7	14714.3	14742.2	15127.2	14815.9
57.5°	12505.8	12530.0	13184.4	14373.7	15894.7	16691.4	16456.3	16405.5	16268.3	16603.7	16505.9
60°	12153.9	12250.4	13016.7	14554.2	16650.7	18113.3	18250.5	18187.0	17802.0	18076.4	17997.6
62.5°	11439.8	11612.6	12390.2	14279.7	16946.8	19274.7	20010.4	19934.1	19270.8	19448.7	19070.1
65°	10273.3	10347.0	11164.0	13333.0	16570.7	20018.0	21579.6	21541.5	20706.7	20428.4	19268.3
67.5°	8186.9	8325.4	9019.2	11354.6	15031.9	19930.3	22793.1	22789.3	21644.4	20791.8	18565.6
69°	6467.7	6611.2	7272.0	9353.3	13301.3	19128.5	22996.4	23040.9	21908.7	20570.7	17561.8
70°	5156.3	5322.8	5776.4	7878.1	11765.1	18071.3	22827.4	22907.5	21857.9	20206.1	16635.5
72.5°	2194.4	2329.1	2651.9	4061.0	7170.3	13494.4	20871.9	21174.3	20680.0	18493.2	13748.6
75°	958.1	1000.0	1146.1	1655.7	3183.0	7344.4	16350.9	16910.0	17682.5	15631.7	10241.5
77.5°	701.4	719.2	799.2	972.1	1428.2	2773.9	10514.7	10840.0	12752.4	11375.0	6282.1
80°	542.6	555.3	617.5	714.1	932.7	1122.0	4795.5	5075.0	7170.3	5842.5	2616.3
82.5°	432.0	440.9	484.1	526.1	644.2	679.8	1592.1	1766.2	2646.8	1613.7	692.5
85°	401.5	411.7	426.9	383.7	413.0	399.0	688.7	720.5	799.2	634.1	289.7
87.5°	181.7	214.7	423.1	298.6	219.8	175.4	282.1	294.8	331.6	332.9	128.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P318580

CATALOG NUMBER: GAN-SA6D-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2
2.5°	4833.6	4829.8	4836.1	4820.9	4839.9	4838.7	4832.3	4834.9	4847.6	4846.3	4847.6
5°	4862.8	4860.3	4867.9	4856.5	4879.3	4887.0	4888.2	4899.7	4913.6	4917.5	4917.5
7.5°	4936.5	4936.5	4940.3	4925.1	4940.3	4939.1	4932.7	4944.1	4958.1	4959.4	4958.1
10°	5063.6	5064.9	5058.5	5019.1	5006.4	4972.1	4940.3	4941.6	4959.4	4973.4	4977.2
12.5°	5223.7	5218.6	5190.7	5118.2	5064.9	4995.0	4961.9	4960.7	4978.4	4989.9	4993.7
15°	5406.7	5392.7	5320.3	5202.1	5108.1	5039.4	4986.1	4973.4	4963.2	4950.5	4951.8
17.5°	5579.5	5547.7	5427.0	5263.1	5164.0	5072.5	4969.6	4887.0	4829.8	4796.7	4786.6
20°	5754.8	5692.6	5518.5	5320.3	5194.5	5028.0	4829.8	4662.1	4557.9	4509.6	4500.7
22.5°	5914.9	5814.5	5603.6	5380.0	5170.3	4878.1	4566.8	4322.8	4177.9	4113.1	4118.2
25°	6071.2	5931.4	5692.6	5421.9	5048.3	4613.8	4200.8	3900.9	3733.2	3660.8	3658.2
27.5°	6208.4	6049.6	5789.1	5387.6	4820.9	4237.7	3767.5	3475.3	3335.5	3273.2	3263.1
30°	6366.0	6198.3	5917.5	5256.7	4488.0	3803.1	3344.4	3138.5	3039.4	2977.2	2965.7
32.5°	6557.9	6400.3	6022.9	5019.1	4062.3	3349.5	3014.0	2870.4	2780.2	2710.3	2697.6
35°	6837.4	6667.2	6049.6	4678.6	3594.7	2991.1	2771.3	2623.9	2501.9	2411.7	2402.8
37.5°	7188.1	7001.3	5988.6	4237.7	3141.1	2758.6	2569.3	2387.6	2228.7	2101.7	2081.3
40°	7693.9	7411.8	5819.6	3729.4	2806.9	2579.4	2372.3	2165.2	1968.3	1819.6	1790.4
42.5°	8301.2	7893.3	5560.4	3223.7	2561.7	2397.7	2176.6	1920.0	1731.9	1626.4	1611.2
45°	9073.8	8394.0	5200.8	2781.5	2320.2	2216.0	1965.7	1729.4	1612.5	1535.0	1522.3
47.5°	9955.6	8955.6	4823.4	2421.9	2115.7	2045.8	1796.7	1644.2	1551.5	1490.5	1479.0
50°	11039.5	9589.7	4423.2	2127.1	1909.8	1841.2	1716.7	1597.2	1523.5	1476.5	1465.1
52.5°	12261.9	10305.1	4134.7	1894.6	1739.5	1690.0	1674.7	1571.8	1512.1	1476.5	1465.1
55°	13578.3	11033.1	3823.4	1698.9	1592.1	1606.1	1646.8	1574.3	1533.7	1490.5	1474.0
57.5°	14896.0	11785.4	3476.5	1533.7	1475.2	1543.9	1627.7	1579.4	1545.1	1503.2	1487.9
60°	15937.9	12261.9	2939.0	1395.2	1382.5	1475.2	1582.0	1541.3	1496.8	1498.1	1495.6
62.5°	16424.6	12236.5	2345.6	1271.9	1289.7	1382.5	1508.3	1481.6	1444.7	1494.3	1498.1
65°	16151.4	11626.5	1825.9	1160.1	1190.6	1285.9	1432.0	1452.4	1465.1	1560.4	1573.1
67.5°	15005.2	10439.8	1414.2	1062.3	1100.4	1219.8	1439.7	1582.0	1598.5	1698.9	1697.6
69°	13819.7	9326.7	1228.7	1011.4	1055.9	1236.4	1538.8	1664.6	1602.3	1709.0	1693.8
70°	12826.1	8446.1	1129.6	977.1	1035.6	1265.6	1604.8	1663.3	1583.2	1674.7	1649.3
72.5°	9878.1	6076.3	958.1	913.6	967.0	1210.9	1623.9	1626.4	1538.8	1556.6	1513.4
75°	6775.2	3839.9	836.1	827.2	862.8	1091.5	1562.9	1554.0	1423.1	1397.7	1362.1
77.5°	3735.7	1950.5	710.3	744.6	768.7	967.0	1420.6	1407.9	1299.9	1246.5	1233.8
80°	1440.9	853.9	599.8	662.0	677.3	837.4	1245.2	1233.8	1143.6	1075.0	1055.9
82.5°	543.8	447.3	495.6	573.1	568.0	691.2	1054.6	1048.3	960.6	860.2	829.7
85°	251.6	268.1	392.6	472.7	435.8	512.1	843.7	855.2	748.4	629.0	629.0
87.5°	106.7	149.9	278.3	357.1	293.5	345.6	618.8	590.9	542.6	376.1	353.2
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)