

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386286

Luminaire Tested: GAW-SA1D-830-U-T3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-830-U-T3-HSS
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4799 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

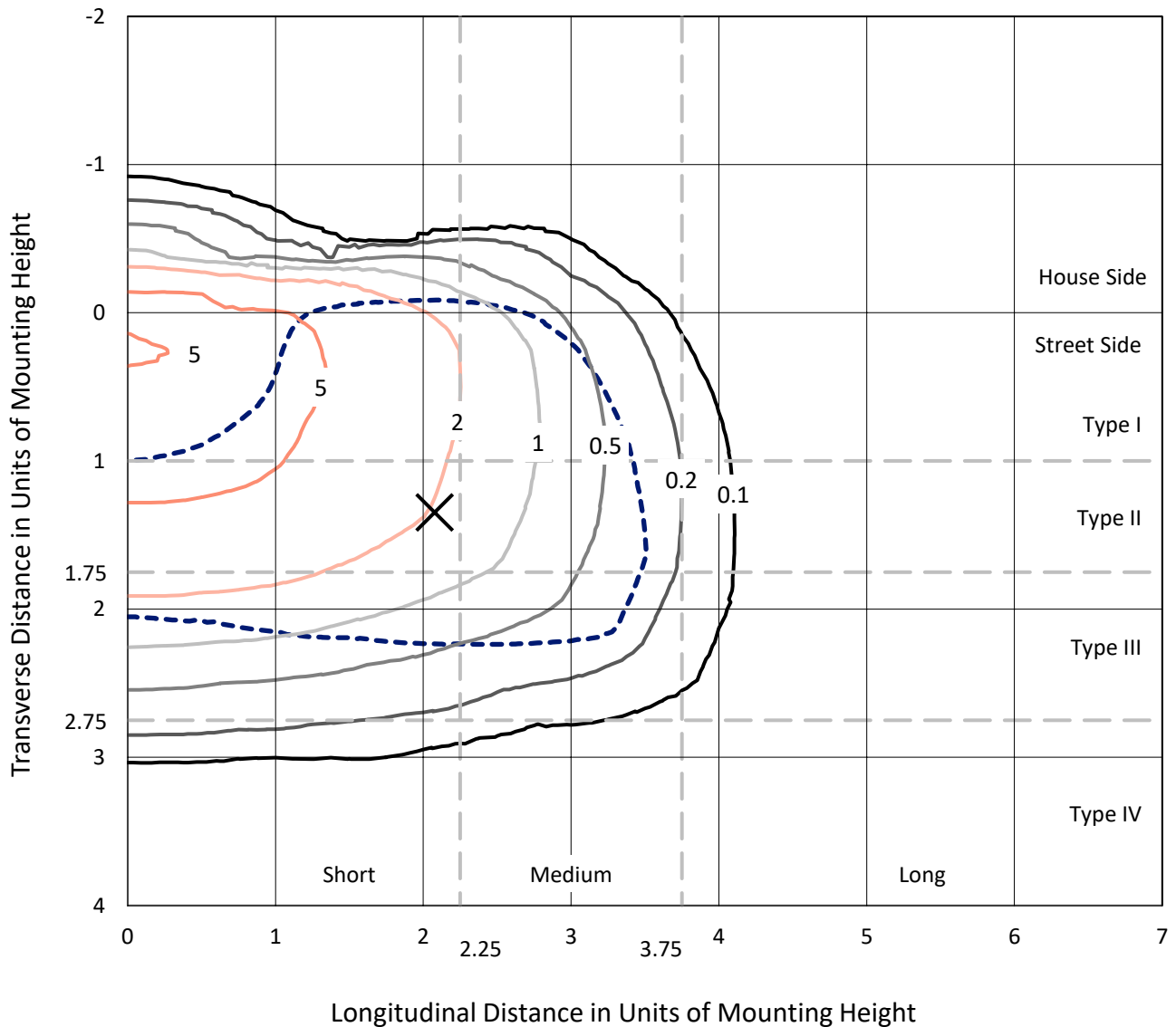
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

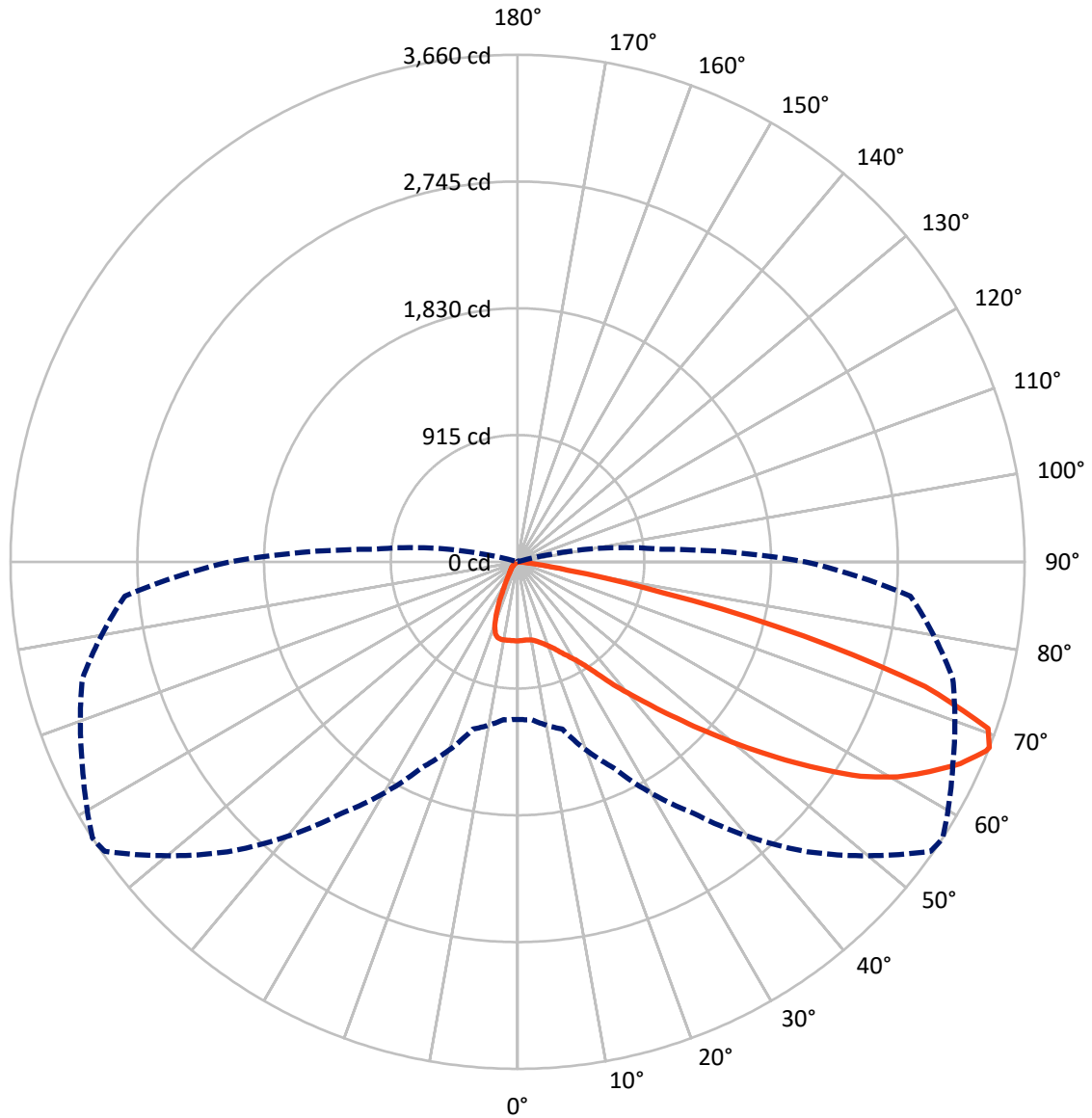
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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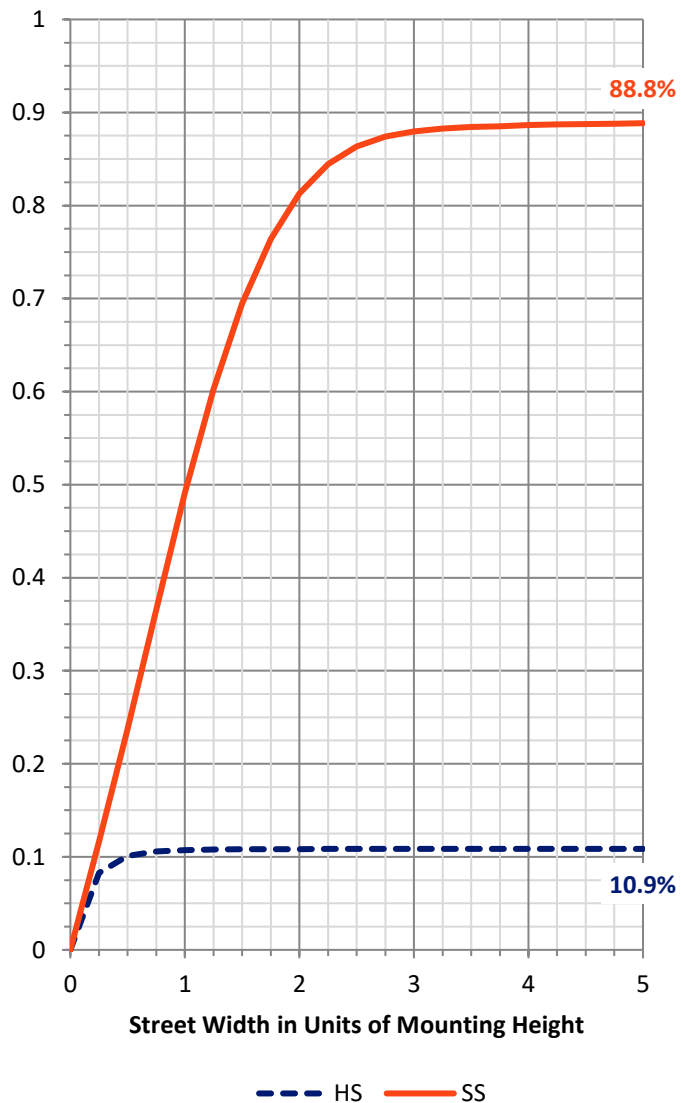
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	526.2	0.0	526.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	4272.8	0.0	4272.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	4799.0	0.0	4799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.1
10°-20°	147.9	3.1
20°-30°	255.1	5.3
30°-40°	440.3	9.2
40°-50°	753.2	15.7
50°-60°	1205.0	25.1
60°-70°	1392.2	29.0
70°-80°	532.0	11.1
80°-90°	19.9	0.4
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°	4799.0	100.0
0°-180°	4799.0	100.0

Coefficient of Utilization



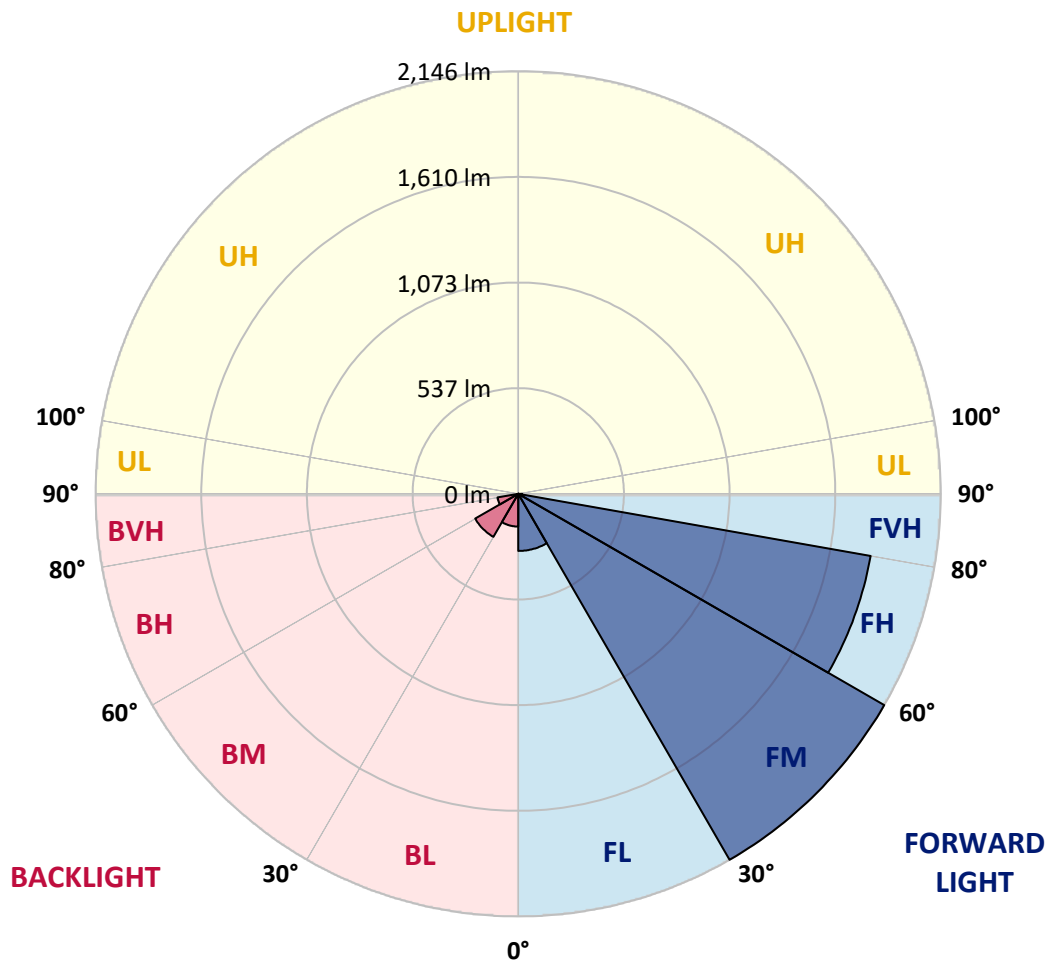
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	290.1	6.0			
FM (30°-60°)	2146.1	44.7			
FH (60°-80°)	1817.1	37.9			G2/5000
FVH (80°-90°)	19.6	0.4			G1/100
BL (0°-30°)	166.3	3.5	B1/500		
BM (30°-60°)	252.4	5.3	B1/1000		
BH (60°-80°)	107.2	2.2	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	556.9	559.4	561.2	562.3	563.7	566.6	567.5	568.9	569.6	569.6	571.2
5°	534.8	537.6	541.4	544.6	551.0	559.1	565.0	567.3	571.4	575.0	577.1
7.5°	514.4	517.6	522.1	529.6	540.5	553.7	565.9	569.1	577.1	584.8	588.6
10°	501.3	503.8	509.7	520.3	534.6	553.0	570.2	574.1	587.7	600.7	607.9
12.5°	496.7	499.0	505.1	517.1	534.8	556.4	580.2	585.9	605.9	624.7	634.9
15°	503.3	503.8	510.3	521.7	539.2	564.8	596.8	603.6	628.8	653.3	666.0
17.5°	528.7	526.7	530.1	535.1	548.9	575.9	614.3	624.5	658.1	686.9	698.9
20°	592.3	592.3	584.5	570.9	571.2	593.2	637.9	649.4	690.5	723.9	734.8
22.5°	701.0	698.9	683.5	650.1	619.5	622.9	666.7	681.7	729.5	765.2	768.8
25°	831.7	829.2	805.3	758.4	705.3	671.0	705.7	723.0	776.1	807.6	800.1
27.5°	970.1	968.0	944.4	886.1	810.6	747.7	752.2	768.6	823.5	854.6	830.8
30°	1104.2	1104.9	1081.5	1021.6	936.0	845.5	811.2	820.8	869.6	901.1	867.1
32.5°	1231.7	1232.6	1212.4	1145.5	1065.6	959.2	892.9	890.4	923.1	954.2	915.2
35°	1345.4	1347.7	1333.8	1281.9	1197.2	1085.8	998.9	993.0	999.1	1034.3	988.9
37.5°	1455.0	1456.4	1445.9	1402.1	1331.3	1224.9	1132.8	1124.4	1111.2	1138.2	1086.3
40°	1575.0	1571.6	1559.6	1519.9	1459.1	1378.5	1276.6	1262.1	1239.2	1263.3	1214.2
42.5°	1686.7	1682.8	1684.9	1639.9	1588.7	1536.5	1444.3	1419.4	1406.0	1433.7	1371.3
45°	1826.2	1824.2	1831.0	1792.0	1750.5	1712.6	1636.5	1609.3	1603.4	1635.9	1561.2
47.5°	1964.0	1969.0	1990.1	1973.5	1956.7	1923.4	1840.1	1827.8	1831.5	1870.7	1761.6
50°	2078.8	2084.7	2142.6	2161.6	2185.9	2166.4	2082.9	2075.4	2089.7	2125.1	1977.1
52.5°	2161.9	2173.9	2245.8	2333.6	2422.1	2435.3	2352.0	2345.2	2364.5	2369.9	2143.7
55°	2219.5	2230.2	2311.6	2472.3	2652.5	2709.2	2657.4	2631.1	2627.5	2573.7	2318.9
57.5°	2229.7	2228.6	2345.7	2561.9	2833.1	2979.4	2946.8	2920.9	2846.5	2762.1	2519.7
60°	2172.1	2178.7	2314.6	2593.0	2946.5	3183.9	3186.4	3152.8	3036.9	2945.2	2714.4
62.5°	1994.6	2021.4	2158.7	2511.5	2945.2	3266.3	3362.0	3336.4	3197.7	3095.2	2911.8
65°	1706.9	1716.4	1847.3	2232.4	2746.2	3231.8	3520.2	3510.7	3342.7	3240.9	3013.3
67.5°	1246.5	1225.8	1363.3	1757.9	2325.0	3030.7	3633.7	3645.7	3454.6	3270.8	2905.2
68°	1137.5	1143.7	1250.8	1640.6	2214.7	2959.7	3641.1	3659.5	3465.7	3251.3	2846.2
70°	678.0	689.8	785.4	1129.6	1684.9	2557.8	3560.4	3602.3	3399.5	3050.0	2461.8
72.5°	173.1	187.2	277.5	505.6	962.4	1802.2	3005.5	3076.6	2951.5	2474.3	1662.0
75°	71.3	74.9	99.2	166.6	358.5	811.9	1981.0	2133.0	2046.1	1481.3	751.1
77.5°	49.2	51.7	63.8	92.4	155.2	275.3	971.2	1081.0	973.9	505.6	163.8
80°	35.4	37.4	45.6	61.5	89.2	98.3	316.6	366.0	290.7	111.0	40.6
82.5°	21.1	22.7	34.0	43.8	54.2	47.0	78.7	89.4	84.2	55.1	18.2
85°	10.4	12.3	22.9	31.3	29.3	19.7	24.1	26.8	33.1	33.6	9.8
87.5°	0.7	1.4	13.4	18.8	8.2	4.5	7.0	8.6	11.8	16.6	4.1
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°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	571.8	572.1	570.5	569.8	570.2	567.5	566.4	566.8	566.8	567.5	566.4
5°	577.5	577.5	574.8	571.2	569.1	563.9	560.5	559.6	558.9	558.4	557.5
7.5°	589.8	588.4	583.6	575.7	568.9	557.5	548.9	544.4	542.1	541.2	540.5
10°	609.5	607.0	599.1	584.3	568.7	548.5	529.6	516.2	505.1	500.6	497.9
12.5°	636.1	632.4	619.0	594.5	567.1	529.9	489.0	449.8	413.2	398.2	390.8
15°	666.7	661.5	640.4	603.2	557.8	487.9	399.2	330.4	279.8	260.7	252.6
17.5°	697.8	691.0	659.0	608.6	529.9	401.0	280.0	211.5	177.7	168.6	165.4
20°	729.1	719.1	675.1	604.5	466.8	289.1	184.7	154.5	144.8	142.1	141.1
22.5°	758.8	743.4	689.6	588.6	369.7	194.0	146.1	136.6	133.4	131.8	131.4
25°	784.7	763.1	702.3	539.6	261.6	146.6	131.6	128.4	124.4	121.4	121.6
27.5°	809.0	782.9	710.0	458.8	174.5	125.3	121.9	117.5	110.1	105.7	105.7
30°	838.2	809.2	715.7	353.1	128.4	110.7	108.0	101.4	91.2	85.5	85.5
32.5°	882.3	849.1	712.1	247.8	106.4	97.3	91.0	81.9	70.8	65.4	65.1
35°	949.7	910.9	686.2	162.5	93.9	84.6	74.4	63.3	53.6	49.0	48.8
37.5°	1040.4	993.5	628.1	116.2	84.2	72.8	60.6	48.3	41.1	38.1	37.9
40°	1158.2	1089.4	545.1	94.2	75.1	61.5	46.7	37.4	32.4	30.2	30.4
42.5°	1299.6	1192.2	445.4	81.2	66.3	50.6	36.5	29.5	26.3	24.7	24.3
45°	1456.6	1293.7	341.1	72.4	57.4	40.8	28.6	23.4	20.9	20.0	20.0
47.5°	1629.3	1392.4	249.6	64.7	47.9	31.5	22.9	19.1	17.0	16.3	16.1
50°	1786.1	1460.9	179.9	56.5	39.3	25.0	18.6	15.9	14.5	13.6	13.6
52.5°	1916.8	1482.5	132.5	47.7	31.8	20.0	15.4	13.6	12.3	11.6	11.6
55°	2031.8	1473.6	98.5	39.3	25.6	16.3	13.2	11.6	10.4	9.8	9.8
57.5°	2142.1	1445.0	73.5	32.0	20.6	13.2	11.1	9.8	8.6	8.2	8.2
60°	2232.2	1397.4	54.7	25.9	16.6	10.7	9.3	7.9	7.0	6.4	6.4
62.5°	2305.3	1344.7	40.2	21.3	13.2	8.4	7.3	6.6	5.2	4.5	4.5
65°	2305.7	1257.4	30.2	17.7	10.2	6.6	5.4	5.2	3.4	2.7	2.5
67.5°	2138.9	1084.0	23.1	15.2	7.9	5.0	4.1	4.3	1.8	1.1	0.9
68°	2078.4	1040.0	21.8	15.0	7.5	4.8	3.9	4.3	1.6	0.9	0.7
70°	1752.3	827.3	17.5	14.5	6.6	3.6	3.2	4.3	1.4	0.7	0.5
72.5°	1120.8	480.2	12.9	11.6	5.0	2.7	2.0	3.9	1.4	0.5	0.2
75°	477.0	148.9	8.8	8.2	2.9	2.0	1.4	2.5	0.9	0.2	0.0
77.5°	100.5	33.6	5.2	5.0	2.0	1.4	0.9	0.7	0.2	0.0	0.0
80°	25.9	9.8	2.7	2.5	1.1	0.7	0.5	0.0	0.0	0.0	0.0
82.5°	8.2	3.9	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	2.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.7	0.2	0.0	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)