

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: P381372

Luminaire Tested: **USSL-PA1A-730-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-PA1A-730-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4824 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 54
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

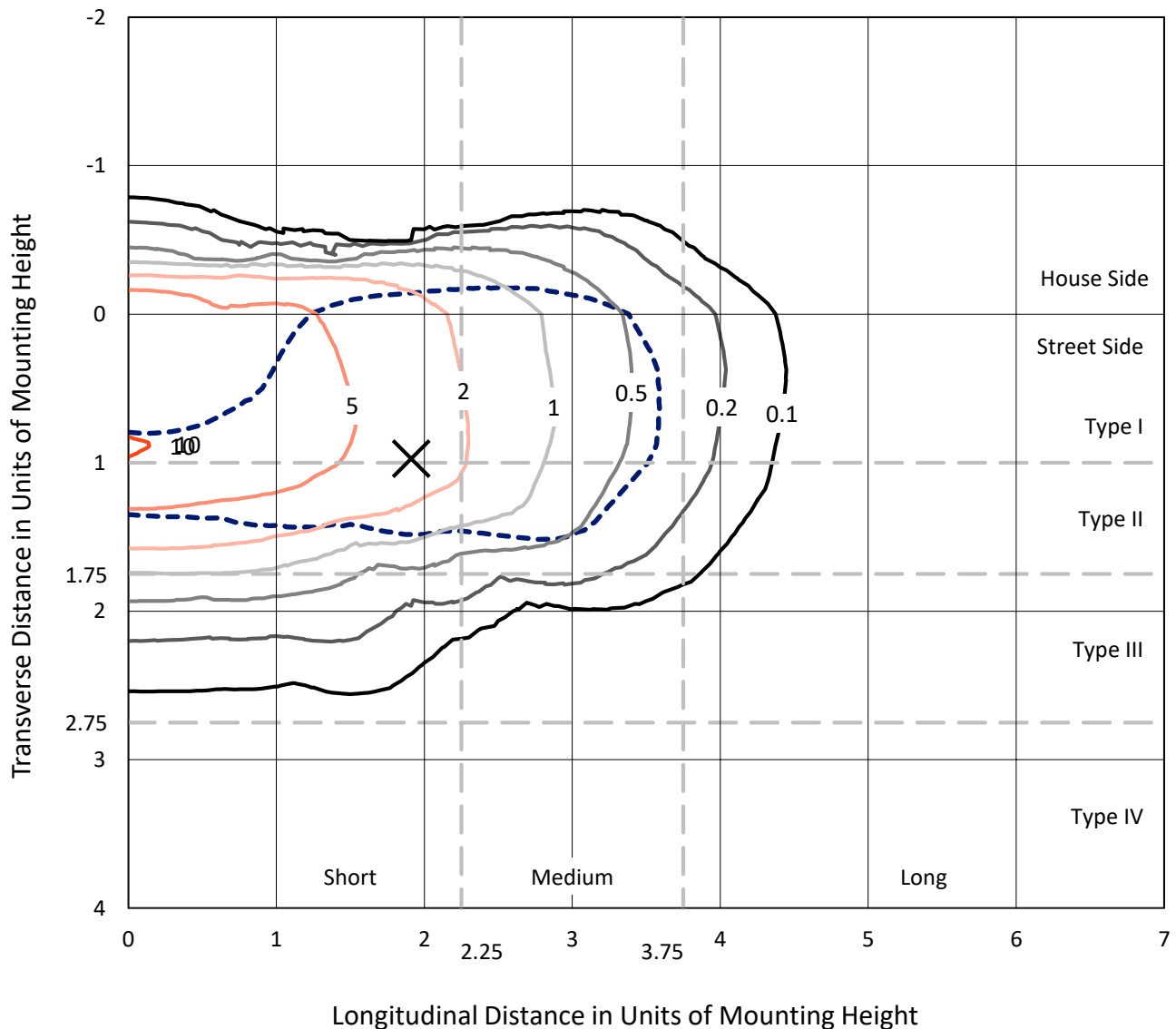


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

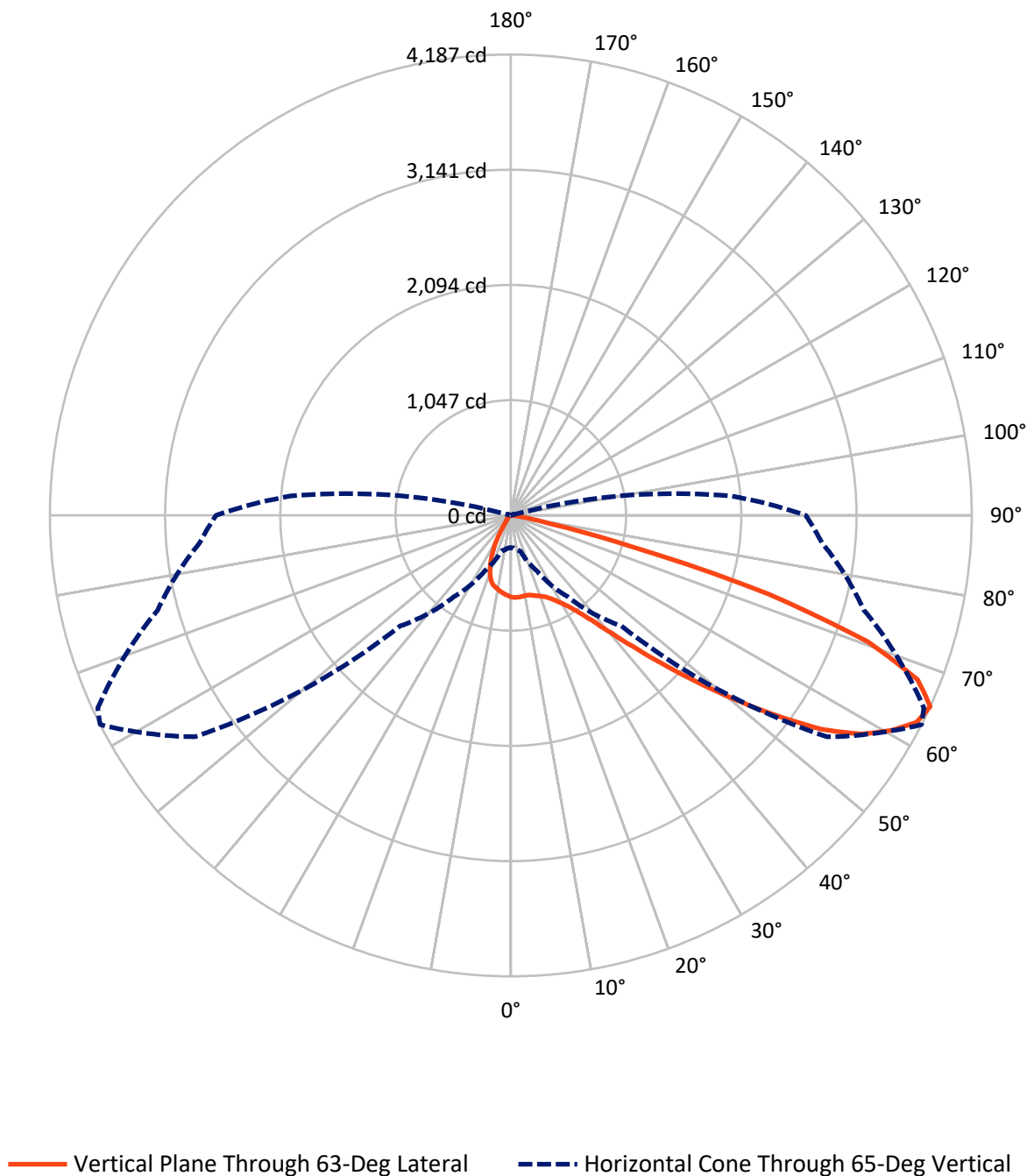


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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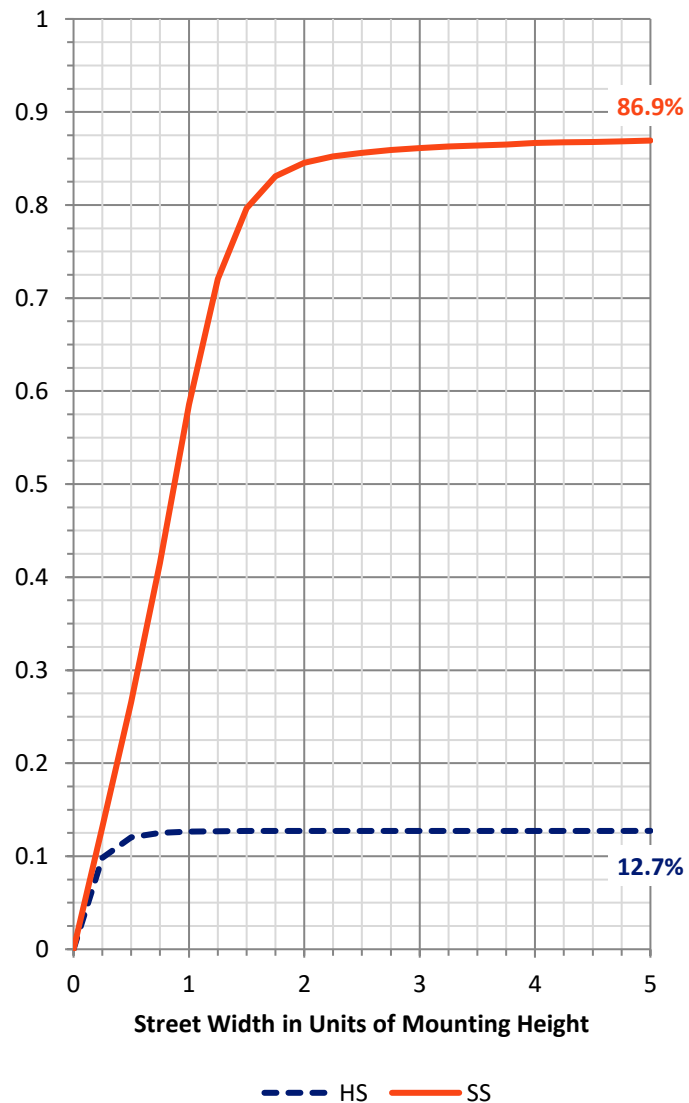
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	620.8	0.0	620.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4203.2	0.0	4203.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	4824.0	0.0	4824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.4
10°-20°	167.3	3.5
20°-30°	247.9	5.1
30°-40°	460.4	9.5
40°-50°	975.2	20.2
50°-60°	1348.5	28.0
60°-70°	1079.5	22.4
70°-80°	448.5	9.3
80°-90°	28.8	0.6
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°	4824.0	100.0
0°-180°	4824.0	100.0

Coefficient of Utilization



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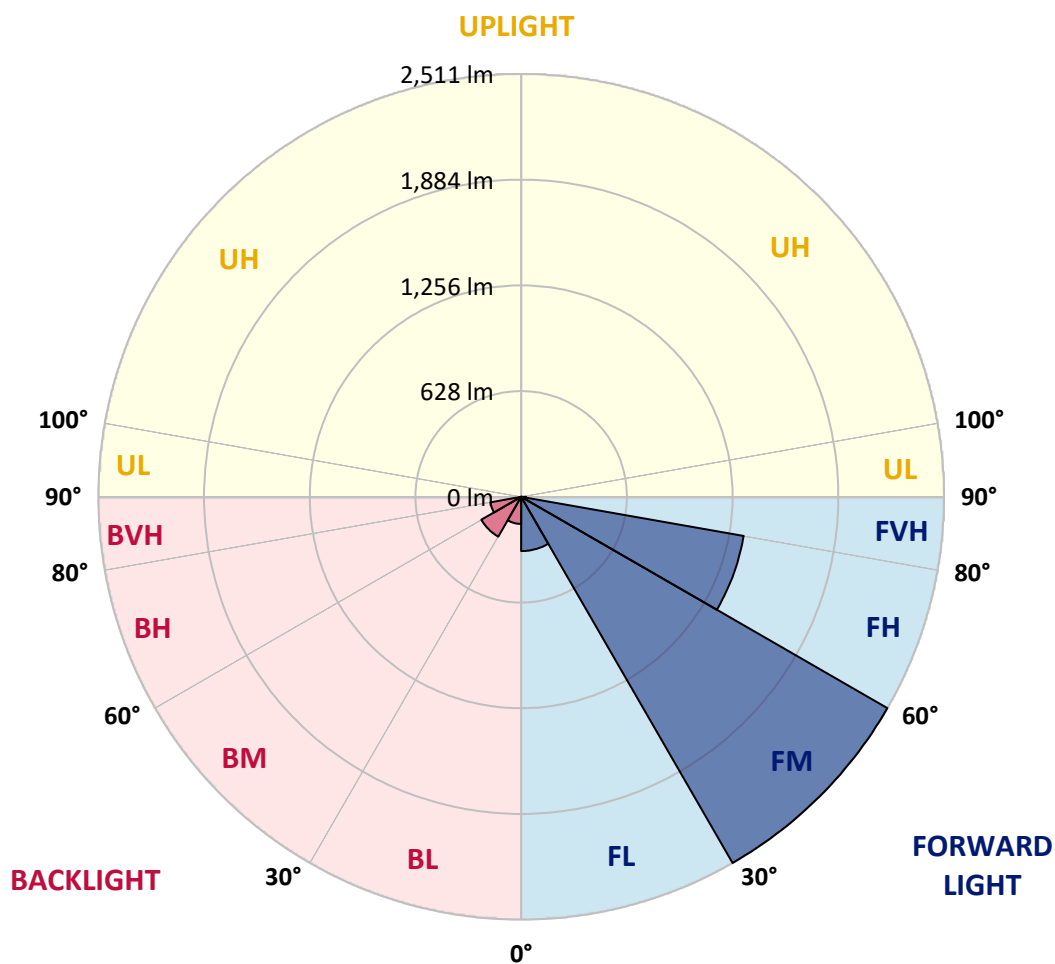
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	322.1	6.7			
FM	(30°-60°)	2511.4	52.1			
FH	(60°-80°)	1342.1	27.8			G1/1800
FVH	(80°-90°)	27.5	0.6			G1/100
BL	(0°-30°)	160.9	3.3	B1/500		
BM	(30°-60°)	272.7	5.7	B1/1000		
BH	(60°-80°)	185.9	3.9	B1/500		G1/500
BVH	(80°-90°)	1.3	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	743.1	743.1	743.1	743.1	743.1	743.1	743.1	743.1	743.1	743.1	743.1
2.5°	755.9	754.1	752.2	751.3	751.3	750.4	746.8	745.9	744.1	742.2	740.4
5°	748.6	745.9	745.0	745.9	746.8	748.6	746.8	746.8	745.0	743.1	739.5
7.5°	730.4	728.6	729.5	732.2	733.1	739.5	740.4	743.1	743.1	741.3	738.6
10°	708.5	707.6	707.6	712.2	716.7	725.8	732.2	739.5	740.4	740.4	735.9
12.5°	692.1	691.2	694.0	699.4	708.5	720.4	731.3	742.2	744.1	745.0	737.7
15°	682.1	682.1	685.8	696.7	709.4	725.8	738.6	753.2	755.0	754.1	744.1
17.5°	673.0	673.9	681.2	699.4	714.0	735.9	751.3	767.7	768.6	767.7	751.3
20°	669.4	671.2	682.1	705.8	722.2	746.8	766.8	783.2	784.1	780.5	758.6
22.5°	679.4	680.3	694.0	719.5	734.9	762.3	787.8	803.2	804.2	798.7	769.6
25°	714.0	714.0	725.8	747.7	761.4	788.7	816.0	834.2	834.2	827.8	794.1
27.5°	795.1	787.8	785.0	791.4	796.0	825.1	854.2	877.0	876.1	867.0	826.0
30°	951.7	933.5	904.3	871.5	855.2	875.2	902.5	931.7	930.7	916.2	865.2
32.5°	1214.9	1188.5	1119.3	1032.7	962.6	939.9	965.4	997.2	998.1	980.8	928.0
35°	1583.7	1541.8	1418.0	1297.8	1137.5	1051.0	1058.2	1092.9	1103.8	1094.7	1033.7
37.5°	1938.9	1900.7	1782.3	1615.6	1397.9	1221.3	1190.3	1220.4	1233.1	1233.1	1168.4
40°	2296.8	2252.2	2147.5	1979.9	1750.4	1487.2	1376.1	1400.7	1414.3	1417.1	1332.4
42.5°	2583.7	2554.5	2474.4	2344.2	2129.2	1953.5	1643.8	1630.2	1642.9	1632.9	1522.7
45°	2782.2	2759.5	2703.9	2654.7	2550.0	2461.7	2001.7	1909.8	1918.0	1883.3	1736.7
47.5°	2823.2	2797.7	2785.9	2854.2	2928.8	2950.7	2441.6	2242.2	2234.0	2157.5	1958.9
50°	2644.7	2647.4	2691.1	2886.0	3197.5	3394.2	2951.6	2617.4	2587.3	2417.0	2165.7
52.5°	2259.5	2303.2	2413.4	2729.4	3279.5	3716.6	3461.6	3015.4	2968.9	2669.3	2320.5
55°	1767.7	1824.2	2005.4	2368.8	3108.3	3860.5	3891.5	3428.8	3323.2	2858.7	2440.7
57.5°	1314.2	1331.5	1542.7	1874.2	2703.0	3719.3	4111.9	3747.6	3611.9	3009.9	2560.0
60°	818.7	829.7	1052.8	1427.1	2047.3	3197.5	4111.9	3967.1	3837.7	3145.6	2669.3
62.5°	509.1	512.7	596.5	978.1	1391.6	2371.5	3941.6	4137.4	4033.5	3243.0	2763.1
65°	293.2	296.9	336.1	552.8	905.2	1419.8	3506.2	4187.4	4141.0	3320.5	2836.0
67.5°	214.0	215.8	231.3	310.6	592.0	729.5	2633.8	3986.2	4044.5	3358.7	2834.1
70°	185.8	188.5	208.6	242.2	427.1	448.1	1340.6	3442.5	3605.5	3304.1	2749.4
72.5°	143.0	146.6	176.7	227.7	313.3	322.4	485.4	2449.8	2696.6	2962.5	2517.2
75°	98.4	102.0	132.1	187.6	258.6	241.3	266.8	1127.5	1422.5	1987.2	1916.1
77.5°	62.8	63.7	82.9	136.6	223.1	171.2	183.1	367.9	516.4	898.9	904.3
80°	41.9	42.8	51.0	88.3	153.0	158.5	112.9	170.3	186.7	262.3	182.1
82.5°	25.5	25.5	34.6	55.6	92.9	131.1	73.8	89.2	95.6	101.1	47.4
85°	10.0	10.0	20.9	36.4	58.3	61.0	46.4	51.9	54.6	59.2	21.9
87.5°	2.7	2.7	11.8	20.0	25.5	28.2	28.2	25.5	27.3	33.7	10.9
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°	743.1	743.1	743.1	743.1	743.1	743.1	743.1	743.1	743.1	743.1	743.1
2.5°	739.5	736.8	733.1	729.5	725.8	723.1	720.4	720.4	718.6	715.8	714.0
5°	737.7	733.1	724.9	718.6	708.5	701.2	695.8	691.2	688.5	682.1	681.2
7.5°	734.9	729.5	717.6	704.9	688.5	675.7	663.0	653.9	644.8	637.5	635.7
10°	730.4	724.0	706.7	688.5	665.7	642.1	612.0	577.4	545.5	527.3	521.8
12.5°	730.4	722.2	699.4	674.8	642.1	583.8	507.3	430.8	371.6	345.2	337.9
15°	734.9	724.0	694.0	660.3	599.2	480.9	357.0	255.9	191.2	171.2	166.7
17.5°	739.5	724.0	685.8	640.2	520.9	348.8	203.1	134.8	113.8	109.3	109.3
20°	741.3	722.2	674.8	602.9	416.2	216.7	121.1	101.1	92.9	90.2	90.2
22.5°	748.6	723.1	666.6	549.2	302.4	127.5	95.6	84.7	76.5	73.8	73.8
25°	766.8	734.0	668.5	480.9	194.0	96.5	81.1	70.1	61.9	58.3	58.3
27.5°	796.0	758.6	678.5	401.6	122.0	82.9	68.3	56.5	50.1	46.4	46.4
30°	828.7	785.9	683.0	310.6	91.1	70.1	55.6	44.6	40.1	37.3	36.4
32.5°	886.1	833.3	679.4	213.1	74.7	59.2	44.6	35.5	31.9	31.0	31.0
35°	978.1	916.2	672.1	133.9	61.9	47.4	35.5	29.1	26.4	25.5	24.6
37.5°	1102.9	1037.3	650.2	88.3	51.0	37.3	29.1	24.6	21.9	20.9	20.9
40°	1255.0	1175.7	608.4	67.4	43.7	30.1	24.6	20.9	19.1	18.2	18.2
42.5°	1428.9	1329.6	541.9	58.3	36.4	25.5	20.9	17.3	16.4	15.5	15.5
45°	1619.2	1490.8	449.9	51.9	31.0	20.9	17.3	15.5	13.7	13.7	12.7
47.5°	1821.4	1652.9	346.1	45.5	26.4	18.2	15.5	12.7	11.8	10.9	10.9
50°	2016.3	1797.7	243.2	39.2	21.9	15.5	12.7	10.9	10.0	9.1	9.1
52.5°	2153.8	1885.2	172.1	33.7	18.2	13.7	10.0	8.2	7.3	7.3	7.3
55°	2264.0	1939.8	120.2	28.2	15.5	11.8	8.2	6.4	6.4	5.5	5.5
57.5°	2367.8	1975.3	88.3	23.7	12.7	9.1	6.4	4.6	4.6	3.6	3.6
60°	2475.3	1994.5	67.4	19.1	10.9	7.3	4.6	3.6	2.7	2.7	2.7
62.5°	2583.7	2006.3	51.9	15.5	9.1	5.5	3.6	2.7	1.8	0.9	0.9
65°	2678.4	2009.9	40.1	11.8	7.3	3.6	2.7	0.9	0.0	0.0	0.0
67.5°	2706.6	1968.0	31.0	9.1	5.5	2.7	1.8	0.0	0.0	0.0	0.0
70°	2630.1	1856.9	23.7	7.3	4.6	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	2334.2	1557.3	18.2	4.6	3.6	1.8	0.9	0.0	0.0	0.0	0.0
75°	1670.2	830.6	12.7	3.6	2.7	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	768.6	321.5	9.1	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
80°	150.3	80.1	3.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.6	13.7	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.8	4.6	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	1.8	0.9	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)