

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: P381309

Luminaire Tested: **USSL-PA1B-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-PA1B-730-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6423 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 74
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

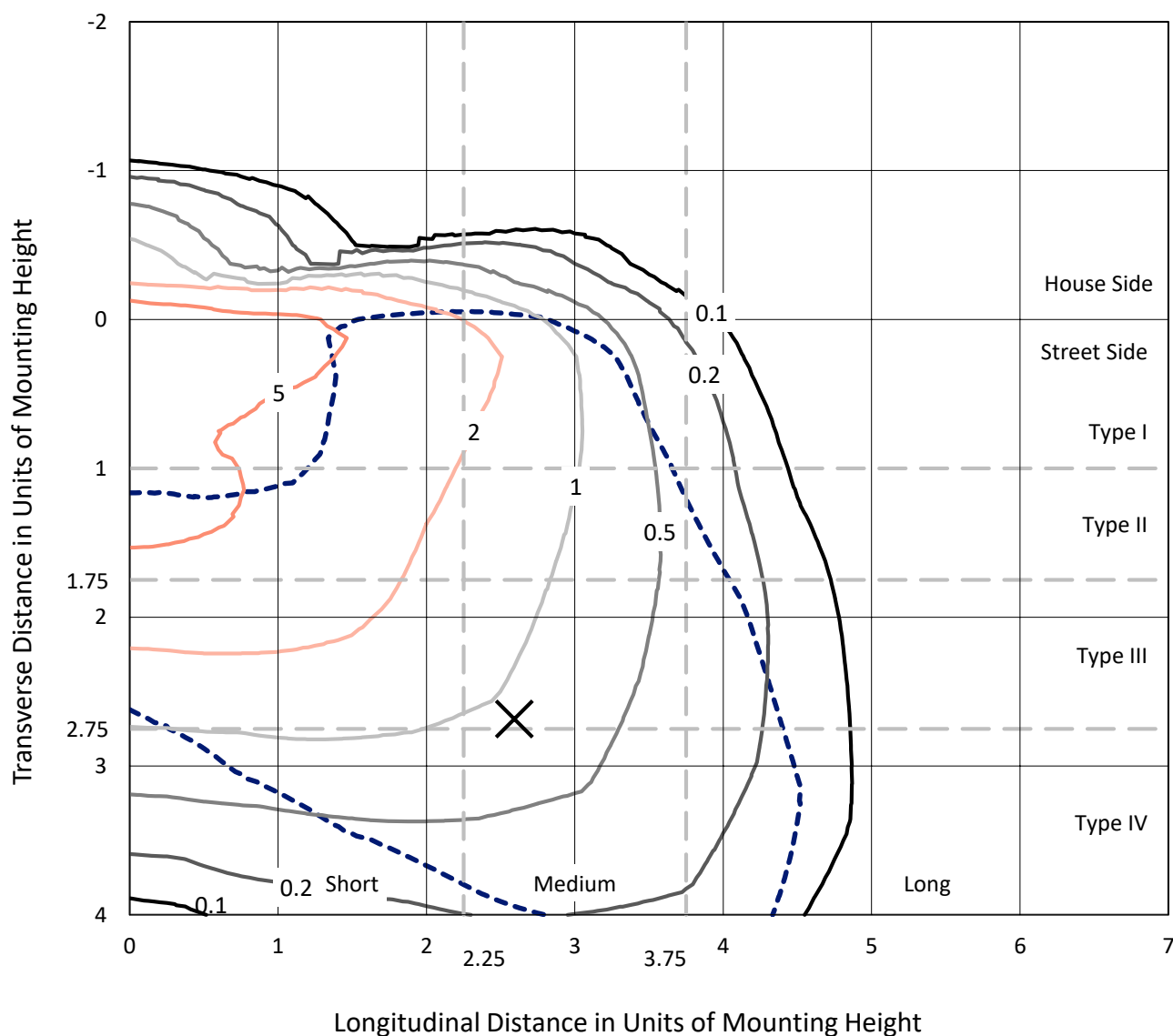


REPORT NUMBER: P381309

CATALOG NUMBER: USSL-PA1B-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

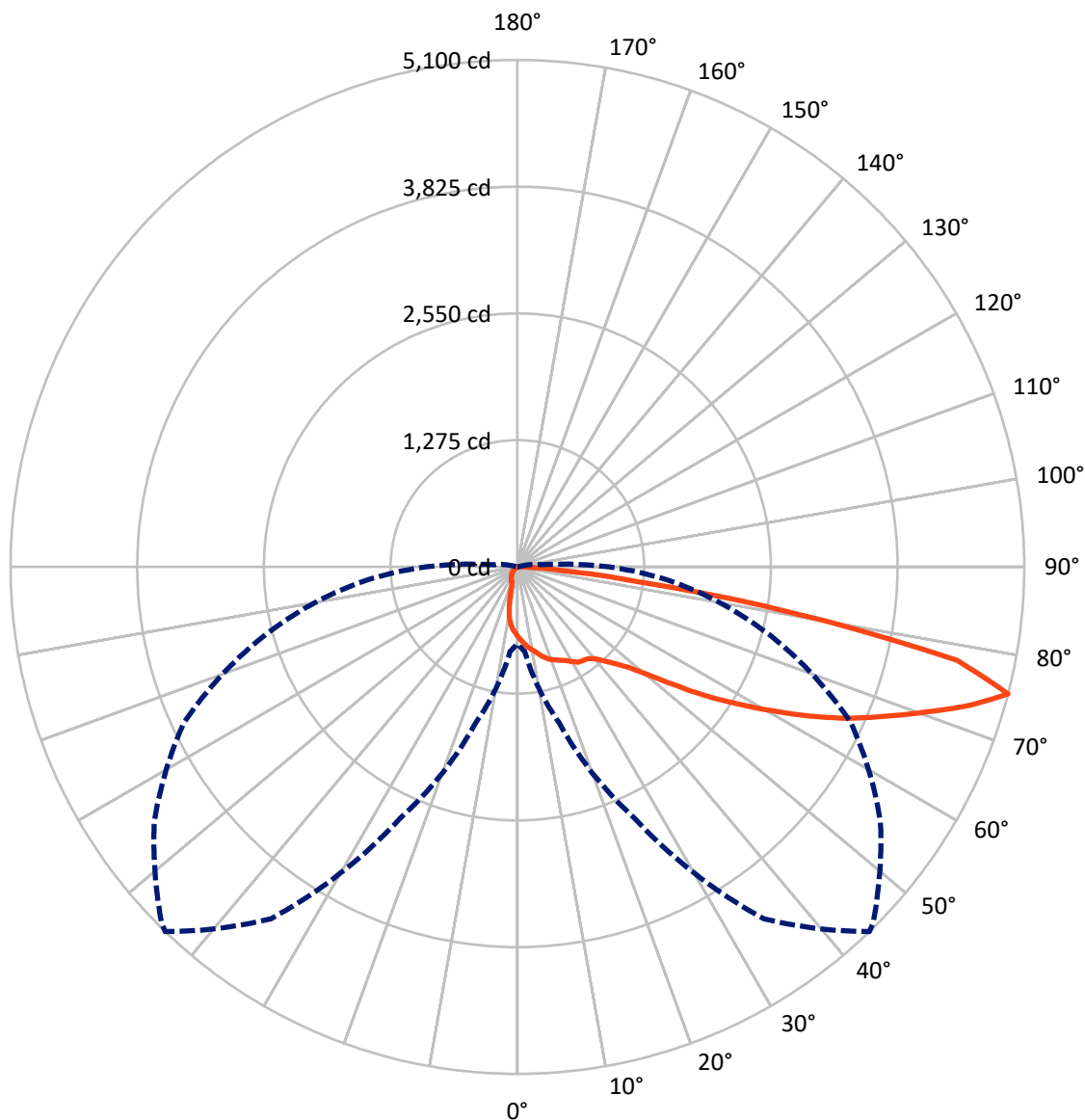


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P381309

CATALOG NUMBER: USSL-PA1B-730-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P381309

CATALOG NUMBER: USSL-PA1B-730-U-T4W-HSS

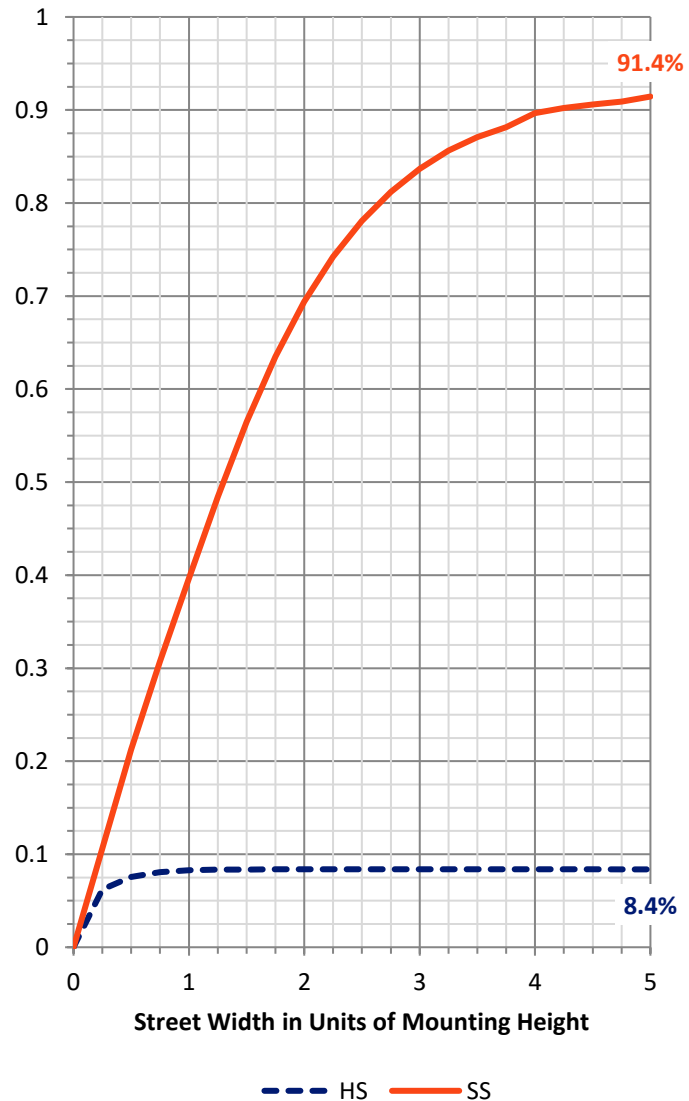
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	541.7	0.0	541.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5881.3	0.0	5881.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	6423.0	0.0	6423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.0
10°-20°	184.7	2.9
20°-30°	304.9	4.7
30°-40°	442.5	6.9
40°-50°	719.3	11.2
50°-60°	1268.1	19.7
60°-70°	1822.5	28.4
70°-80°	1459.4	22.7
80°-90°	155.5	2.4
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°	6423.0	100.0
0°-180°	6423.0	100.0

Coefficient of Utilization



REPORT NUMBER: P381309

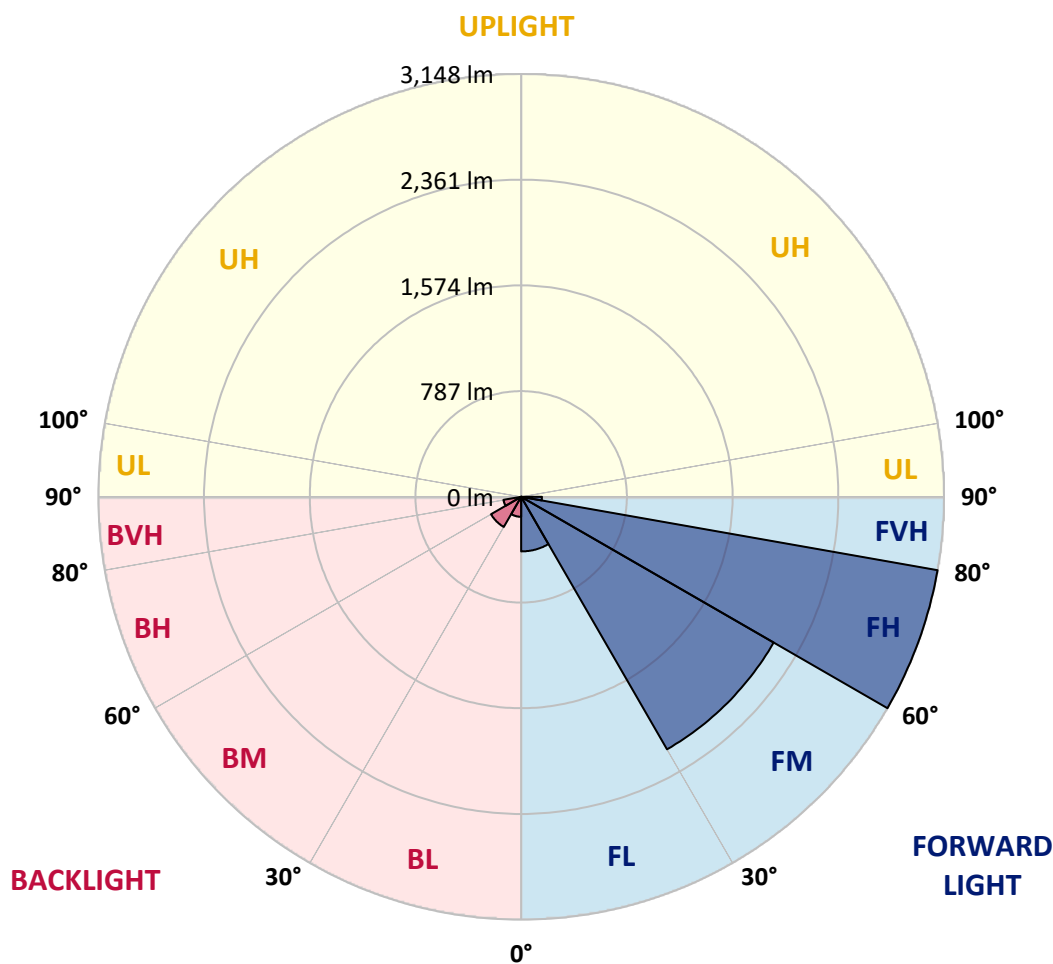
CATALOG NUMBER: USSL-PA1B-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	406.8	6.3			
FM	(30°-60°)	2171.0	33.8			
FH	(60°-80°)	3148.4	49.0			G2/5000
FVH	(80°-90°)	155.1	2.4			G2/225
BL	(0°-30°)	148.8	2.3	B1/500		
BM	(30°-60°)	258.9	4.0	B1/1000		
BH	(60°-80°)	133.5	2.1	B1/500		G1/500
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 IV Medium





REPORT NUMBER: P381309

CATALOG NUMBER: USSL-PA1B-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1
2.5°	761.9	760.7	757.2	751.3	745.3	739.4	738.2	728.7	718.1	709.8	702.7
5°	829.5	828.3	822.4	809.3	796.3	780.9	779.7	757.2	737.0	714.5	695.6
7.5°	899.4	897.0	886.3	866.2	843.7	820.0	817.6	784.4	754.8	725.2	697.9
10°	953.9	951.5	936.1	912.4	881.6	852.0	848.4	814.1	784.4	746.5	709.8
12.5°	1007.2	1002.5	982.3	956.3	918.3	889.9	886.3	850.8	815.2	776.1	731.1
15°	1057.0	1051.0	1032.1	998.9	958.6	931.4	929.0	891.1	854.3	809.3	759.6
17.5°	1091.3	1089.0	1066.5	1029.7	990.6	968.1	965.7	926.6	889.9	842.5	789.2
20°	1109.1	1109.1	1087.8	1047.5	1011.9	996.5	993.0	956.3	920.7	875.7	820.0
22.5°	1112.7	1116.2	1099.6	1055.8	1029.7	1016.7	1014.3	982.3	948.0	906.5	854.3
25°	1119.8	1119.8	1111.5	1064.1	1045.1	1041.6	1040.4	1011.9	981.1	939.7	888.7
27.5°	1128.1	1128.1	1122.1	1075.9	1068.8	1067.6	1066.5	1053.4	1028.5	980.0	929.0
30°	1149.4	1150.6	1145.8	1099.6	1094.9	1107.9	1110.3	1103.2	1072.4	1011.9	970.5
32.5°	1202.7	1192.1	1179.0	1116.2	1124.5	1141.1	1142.3	1128.1	1094.9	1046.3	1020.2
35°	1336.6	1273.8	1214.6	1130.4	1134.0	1150.6	1153.0	1151.8	1131.6	1090.2	1077.1
37.5°	1461.0	1372.2	1288.0	1163.6	1151.8	1169.5	1174.3	1194.4	1179.0	1150.6	1154.1
40°	1533.3	1499.0	1439.7	1254.9	1187.3	1214.6	1219.3	1250.1	1244.2	1232.3	1254.9
42.5°	1756.1	1758.5	1694.5	1391.1	1252.5	1296.3	1302.3	1327.1	1335.4	1341.4	1395.9
45°	2014.4	2022.7	2007.3	1636.4	1375.7	1389.9	1398.2	1431.4	1462.2	1500.1	1599.7
47.5°	2324.9	2317.8	2260.9	1936.2	1590.2	1510.8	1516.7	1580.7	1634.0	1717.0	1859.2
50°	2599.8	2617.5	2509.7	2215.9	1892.4	1701.6	1695.7	1758.5	1854.4	1970.6	2149.5
52.5°	2877.1	2851.0	2705.2	2493.1	2250.2	1961.1	1943.3	1977.7	2112.8	2250.2	2433.9
55°	2950.5	2952.9	2903.1	2796.5	2548.8	2276.3	2246.7	2244.3	2412.6	2506.2	2732.5
57.5°	3095.1	3101.0	3112.9	3134.2	3016.9	2591.5	2560.7	2527.5	2691.0	2745.5	3032.3
60°	3242.0	3249.1	3321.4	3436.3	3358.1	2931.6	2898.4	2820.2	2911.4	2984.9	3347.5
62.5°	3223.1	3272.8	3482.6	3711.3	3701.8	3304.8	3263.3	3074.9	3133.0	3197.0	3636.6
65°	2910.2	2963.6	3435.2	3787.1	4046.6	3673.3	3605.8	3338.0	3341.6	3418.6	3915.1
67.5°	2630.6	2688.6	3138.9	3755.1	4274.1	4003.9	3934.0	3602.2	3546.5	3674.5	4064.4
70°	2469.4	2527.5	2903.1	3655.6	4338.1	4370.1	4309.7	3904.4	3790.6	3908.0	3897.3
72.5°	1932.6	2023.9	2602.1	3466.0	4406.8	4762.3	4714.9	4287.1	3998.0	3663.9	2967.1
75°	770.2	854.3	1624.6	2789.4	4320.3	5100.0	5063.3	4459.0	3700.6	2616.4	1519.1
77.5°	232.2	248.8	451.5	1379.3	3167.4	4521.8	4509.9	3749.2	2618.7	1214.6	414.7
80°	77.0	85.3	138.6	380.4	1445.6	2824.9	2878.2	2388.9	1189.7	278.5	84.1
82.5°	32.0	35.5	69.9	152.9	511.9	1216.9	1199.2	1070.0	414.7	173.0	30.8
85°	8.3	10.7	32.0	87.7	187.2	419.5	440.8	359.0	234.6	143.4	9.5
87.5°	0.0	0.0	15.4	35.5	84.1	126.8	132.7	109.0	132.7	107.8	4.7
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: P381309

CATALOG NUMBER: USSL-PA1B-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1
2.5°	696.7	690.8	680.2	673.1	663.6	661.2	656.5	650.5	649.4	643.4	644.6
5°	684.9	675.4	656.5	643.4	628.0	623.3	615.0	609.1	604.3	596.0	597.2
7.5°	682.5	668.3	642.2	617.4	592.5	574.7	549.8	529.7	513.1	495.3	498.9
10°	690.8	673.1	636.3	602.0	556.9	500.0	434.9	392.2	370.9	349.6	351.9
12.5°	707.4	686.1	638.7	586.5	495.3	398.1	308.1	250.0	234.6	225.1	226.3
15°	732.3	706.2	645.8	556.9	412.4	287.9	205.0	180.1	186.0	189.6	189.6
17.5°	758.4	728.7	651.7	503.6	318.8	201.4	167.1	164.7	173.0	181.3	181.3
20°	790.4	752.4	652.9	436.1	229.9	163.5	157.6	157.6	163.5	173.0	173.0
22.5°	821.2	778.5	642.2	359.0	175.4	151.7	151.7	151.7	155.2	164.7	165.9
25°	857.9	810.5	619.7	277.3	150.5	144.6	144.6	145.7	148.1	156.4	157.6
27.5°	897.0	843.7	581.8	202.6	137.5	136.3	137.5	138.6	139.8	148.1	150.5
30°	942.0	880.4	533.2	151.7	125.6	125.6	129.2	131.5	131.5	138.6	141.0
32.5°	994.2	929.0	475.2	125.6	113.8	112.6	118.5	122.0	122.0	128.0	130.3
35°	1059.3	978.8	405.3	111.4	104.3	101.9	104.3	110.2	112.6	117.3	118.5
37.5°	1145.8	1038.0	330.6	103.1	97.2	92.4	92.4	93.6	98.4	103.1	104.3
40°	1256.0	1103.2	257.1	97.2	90.1	85.3	81.8	80.6	79.4	82.9	85.3
42.5°	1394.7	1176.7	192.0	91.2	84.1	77.0	72.3	67.5	61.6	60.4	61.6
45°	1572.4	1266.7	142.2	86.5	80.6	69.9	61.6	53.3	42.7	39.1	40.3
47.5°	1782.2	1360.3	111.4	81.8	78.2	61.6	51.0	36.7	26.1	23.7	24.9
50°	2004.9	1450.4	94.8	75.8	73.5	53.3	36.7	22.5	15.4	15.4	16.6
52.5°	2194.5	1501.3	86.5	71.1	66.4	43.8	23.7	13.0	9.5	9.5	10.7
55°	2378.2	1528.6	80.6	66.4	56.9	30.8	13.0	8.3	5.9	5.9	5.9
57.5°	2567.8	1540.4	73.5	60.4	45.0	19.0	7.1	4.7	3.6	3.6	3.6
60°	2736.0	1517.9	62.8	49.8	29.6	9.5	3.6	3.6	2.4	1.2	1.2
62.5°	2877.1	1475.3	43.8	35.5	17.8	4.7	2.4	1.2	0.0	0.0	0.0
65°	2963.6	1406.5	28.4	23.7	10.7	3.6	1.2	0.0	0.0	0.0	0.0
67.5°	2938.7	1277.4	17.8	15.4	4.7	2.4	1.2	0.0	0.0	0.0	0.0
70°	2651.9	1047.5	13.0	9.5	3.6	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1911.3	708.6	9.5	5.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	919.5	252.4	5.9	4.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	225.1	55.7	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	49.8	10.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.6	4.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.2	0.0	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)