

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: P381311

Luminaire Tested: **USSL-PA2B-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381311
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-PA2B-730-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 970mA LIGHT ENGINES 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: 12816 lumens
Efficiency: N/A
Efficacy: 84.9 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 - G3

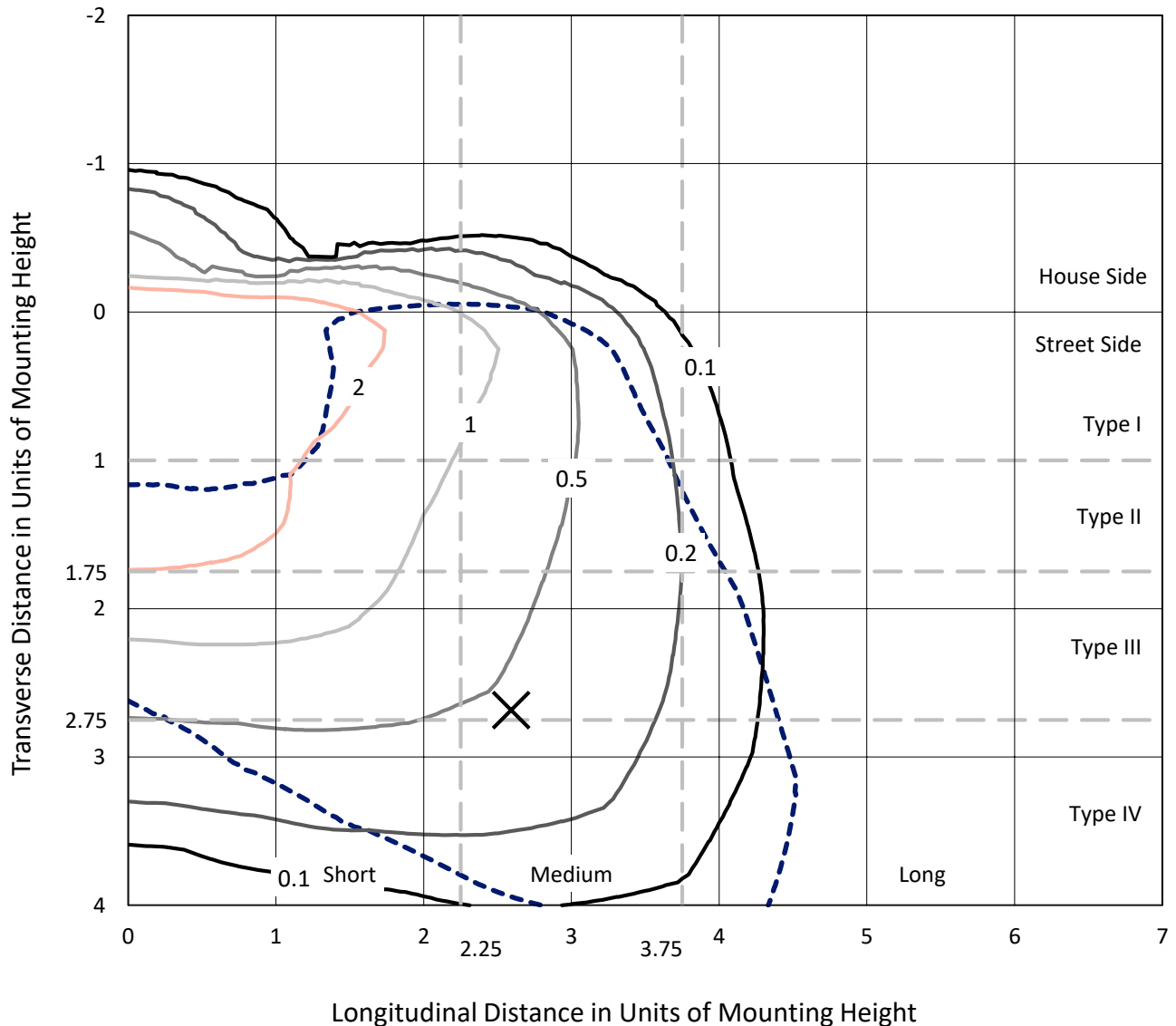
Input Watts (W): 151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P381311
 CATALOG NUMBER: USSL-PA2B-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

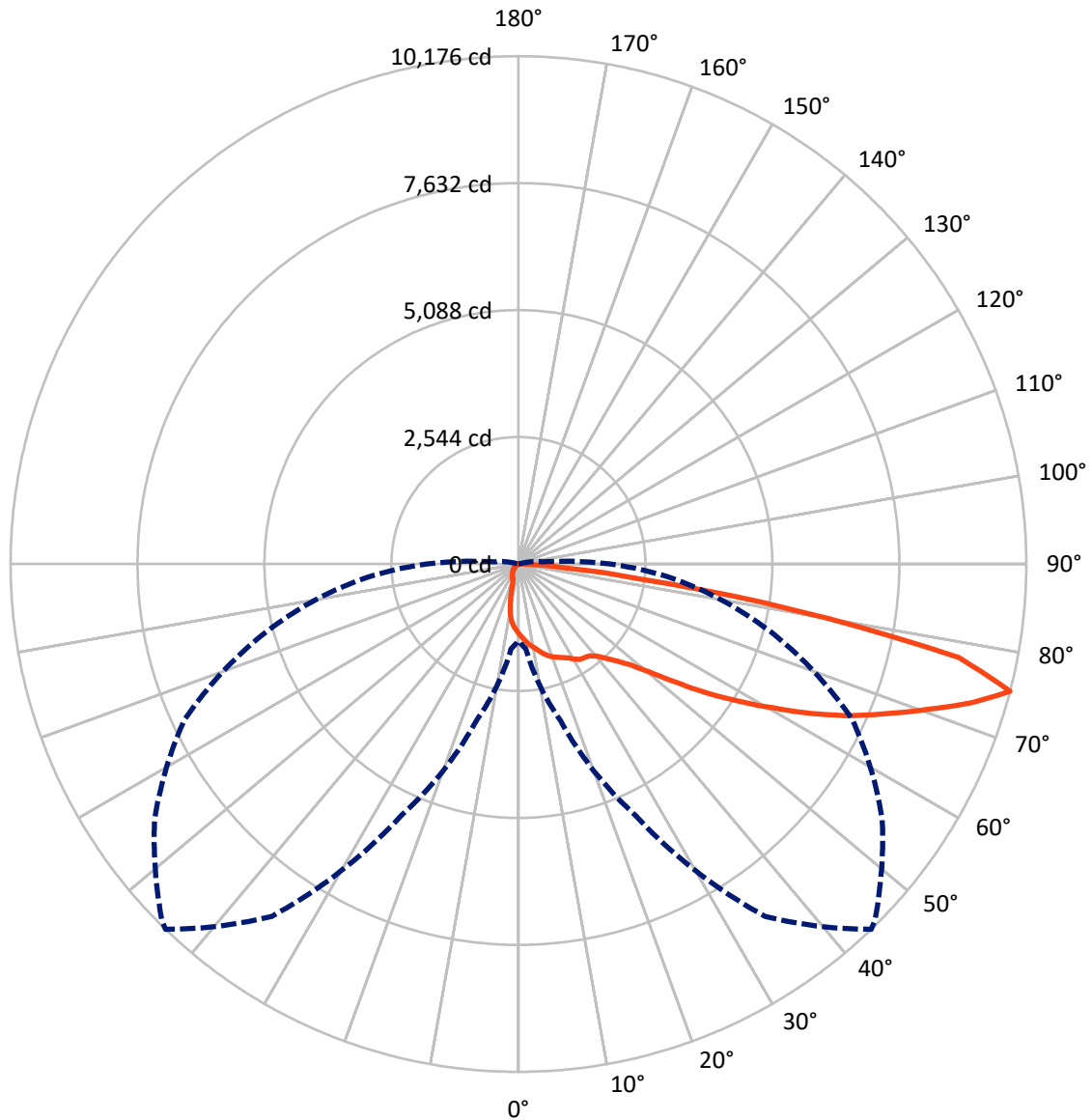


Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P381311

CATALOG NUMBER: USSL-PA2B-730-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P381311

CATALOG NUMBER: USSL-PA2B-730-U-T4W-HSS

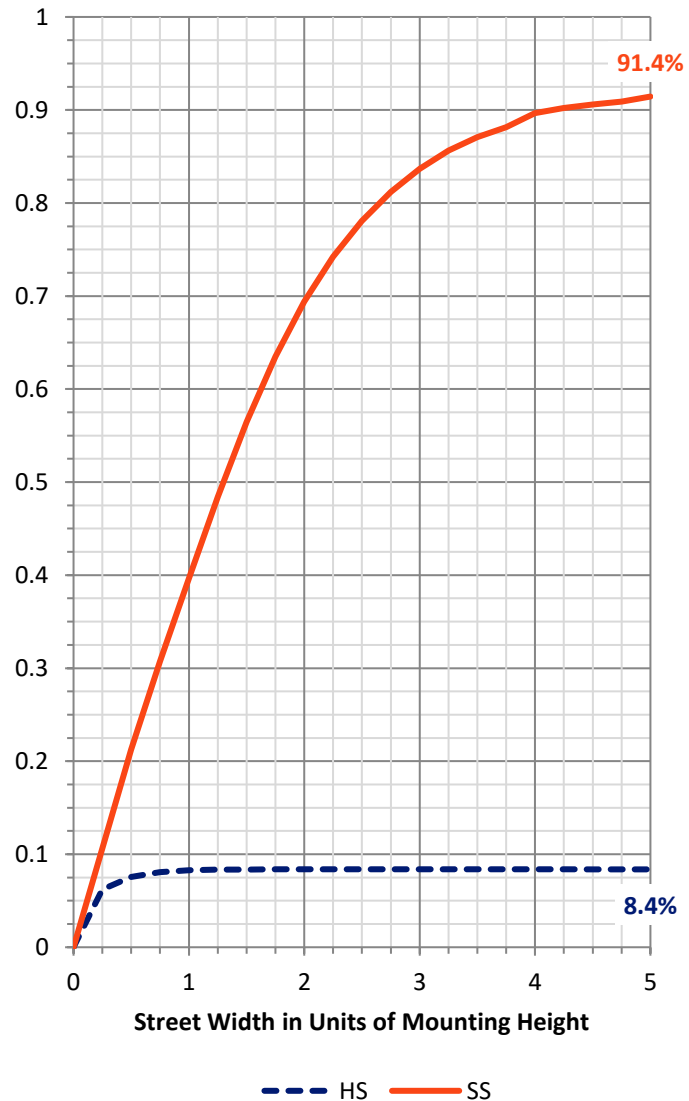
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1080.8	0.0	1080.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11735.2	0.0	11735.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	12816.0	0.0	12816.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	1.0
10°-20°	368.6	2.9
20°-30°	608.4	4.7
30°-40°	883.0	6.9
40°-50°	1435.3	11.2
50°-60°	2530.3	19.7
60°-70°	3636.6	28.4
70°-80°	2912.1	22.7
80°-90°	310.3	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°	12816.0	100.0
0°-180°	12816.0	100.0



REPORT NUMBER: P381311

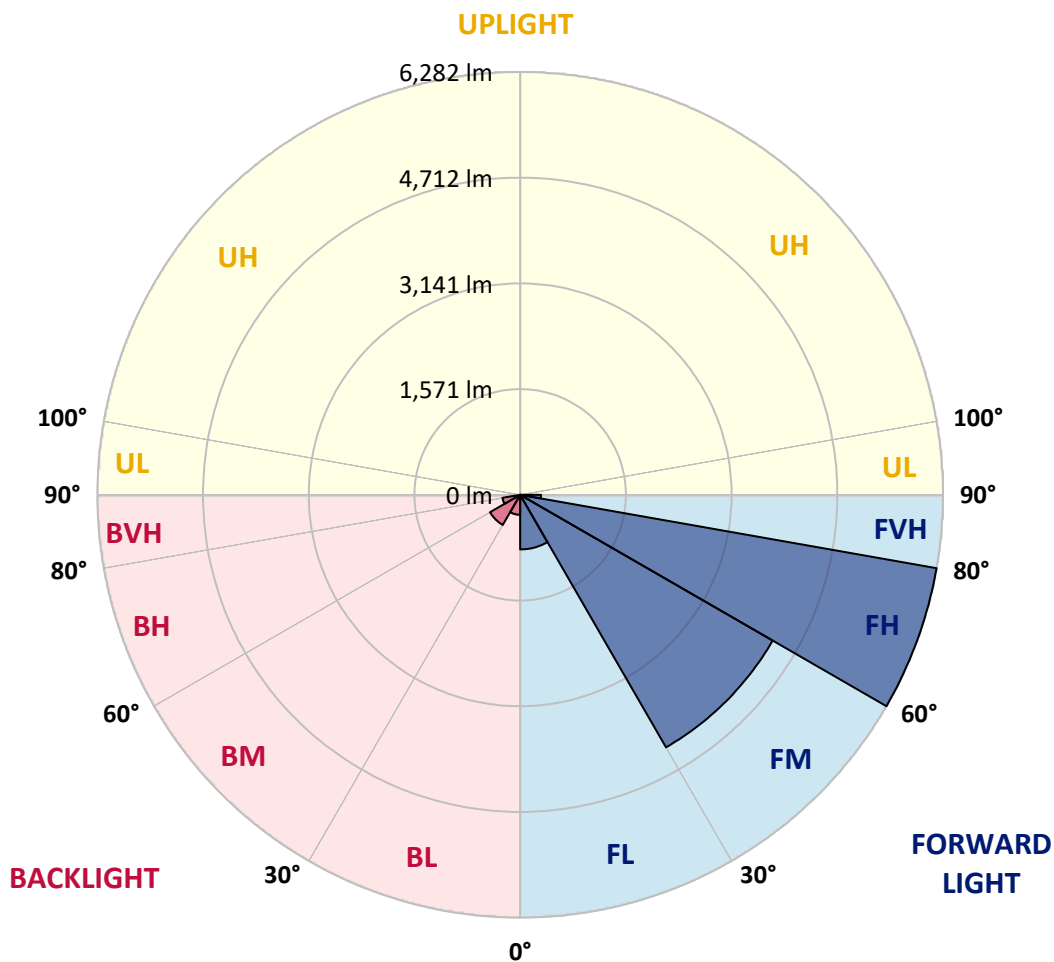
CATALOG NUMBER: USSL-PA2B-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	811.6	6.3			
FM	(30°-60°)	4331.9	33.8			
FH	(60°-80°)	6282.2	49.0			G3/7500
FVH	(80°-90°)	309.5	2.4			G3/500
BL	(0°-30°)	296.9	2.3	B1/500		
BM	(30°-60°)	516.6	4.0	B1/1000		
BH	(60°-80°)	266.4	2.1	B1/500		G1/500
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium





REPORT NUMBER: P381311

CATALOG NUMBER: USSL-PA2B-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1520.3	1517.9	1510.8	1499.0	1487.2	1475.4	1473.0	1454.1	1432.8	1416.3	1402.1
5°	1655.1	1652.7	1640.9	1614.9	1588.9	1558.1	1555.7	1510.8	1470.6	1425.7	1387.9
7.5°	1794.6	1789.8	1768.5	1728.3	1683.4	1636.1	1631.4	1565.2	1506.1	1447.0	1392.6
10°	1903.3	1898.6	1867.8	1820.6	1759.1	1700.0	1692.9	1624.3	1565.2	1489.5	1416.3
12.5°	2009.7	2000.2	1960.1	1908.0	1832.4	1775.6	1768.5	1697.6	1626.7	1548.7	1458.8
15°	2109.0	2097.2	2059.4	1993.2	1912.8	1858.4	1853.7	1778.0	1704.7	1614.9	1515.6
17.5°	2177.6	2172.8	2127.9	2054.6	1976.6	1931.7	1927.0	1848.9	1775.6	1681.1	1574.7
20°	2213.0	2213.0	2170.5	2090.1	2019.2	1988.4	1981.3	1908.0	1837.1	1747.3	1636.1
22.5°	2220.1	2227.2	2194.1	2106.6	2054.6	2028.6	2023.9	1960.1	1891.5	1808.7	1704.7
25°	2234.3	2234.3	2217.8	2123.2	2085.4	2078.3	2075.9	2019.2	1957.7	1874.9	1773.3
27.5°	2250.9	2250.9	2239.0	2146.8	2132.7	2130.3	2127.9	2101.9	2052.3	1955.3	1853.7
30°	2293.4	2295.8	2286.3	2194.1	2184.7	2210.7	2215.4	2201.2	2139.7	2019.2	1936.4
32.5°	2399.8	2378.5	2352.5	2227.2	2243.8	2276.9	2279.2	2250.9	2184.7	2087.7	2035.7
35°	2667.0	2541.7	2423.5	2255.6	2262.7	2295.8	2300.5	2298.2	2258.0	2175.2	2149.2
37.5°	2915.3	2737.9	2570.1	2321.8	2298.2	2333.6	2343.1	2383.3	2352.5	2295.8	2302.9
40°	3059.5	2990.9	2872.7	2503.9	2369.1	2423.5	2432.9	2494.4	2482.6	2458.9	2503.9
42.5°	3504.0	3508.7	3381.0	2775.8	2499.1	2586.6	2598.4	2648.1	2664.6	2676.5	2785.2
45°	4019.4	4036.0	4005.2	3265.2	2745.0	2773.4	2789.9	2856.1	2917.6	2993.3	3191.9
47.5°	4638.9	4624.7	4511.2	3863.4	3173.0	3014.6	3026.4	3154.1	3260.5	3426.0	3709.7
50°	5187.4	5222.9	5007.7	4421.4	3775.9	3395.2	3383.4	3508.7	3700.2	3931.9	4289.0
52.5°	5740.7	5688.7	5397.8	4974.6	4489.9	3913.0	3877.6	3946.1	4215.7	4489.9	4856.4
55°	5887.3	5892.0	5792.7	5579.9	5085.7	4541.9	4482.8	4478.1	4813.8	5000.6	5452.2
57.5°	6175.7	6187.5	6211.2	6253.7	6019.7	5170.9	5109.4	5043.2	5369.5	5478.2	6050.4
60°	6468.9	6483.1	6627.3	6856.6	6700.6	5849.4	5783.2	5627.2	5809.2	5955.8	6679.3
62.5°	6431.1	6530.4	6948.9	7405.2	7386.3	6594.2	6511.5	6135.5	6251.4	6379.0	7256.2
65°	5806.9	5913.3	6854.3	7556.5	8074.3	7329.5	7194.8	6660.4	6667.5	6821.2	7811.8
67.5°	5248.9	5364.7	6263.2	7492.7	8528.3	7989.2	7849.7	7187.7	7076.5	7331.9	8109.8
70°	4927.3	5043.2	5792.7	7294.1	8655.9	8719.8	8599.2	7790.6	7563.6	7797.7	7776.4
72.5°	3856.3	4038.3	5192.1	6915.8	8793.1	9502.4	9407.8	8554.3	7977.4	7310.6	5920.4
75°	1536.8	1704.7	3241.5	5565.7	8620.5	10176.2	10102.9	8897.1	7383.9	5220.5	3031.1
77.5°	463.4	496.5	900.8	2752.1	6319.9	9022.4	8998.8	7480.8	5225.2	2423.5	827.5
80°	153.7	170.2	276.6	759.0	2884.5	5636.6	5743.0	4766.6	2373.8	555.6	167.9
82.5°	63.8	70.9	139.5	305.0	1021.4	2428.2	2392.7	2135.0	827.5	345.2	61.5
85°	16.6	21.3	63.8	175.0	373.6	837.0	879.5	716.4	468.1	286.1	18.9
87.5°	0.0	0.0	30.7	70.9	167.9	253.0	264.8	217.5	264.8	215.2	9.5
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: P381311

CATALOG NUMBER: USSL-PA2B-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1390.2	1378.4	1357.1	1343.0	1324.0	1319.3	1309.9	1298.0	1295.7	1283.8	1286.2
5°	1366.6	1347.7	1309.9	1283.8	1253.1	1243.7	1227.1	1215.3	1205.8	1189.3	1191.6
7.5°	1361.9	1333.5	1281.5	1231.8	1182.2	1146.7	1097.1	1056.9	1023.8	988.3	995.4
10°	1378.4	1343.0	1269.7	1201.1	1111.2	997.8	867.7	782.6	740.0	697.5	702.2
12.5°	1411.5	1369.0	1274.4	1170.4	988.3	794.4	614.7	498.9	468.1	449.2	451.6
15°	1461.2	1409.2	1288.6	1111.2	822.8	574.5	409.0	359.4	371.2	378.3	378.3
17.5°	1513.2	1454.1	1300.4	1004.9	636.0	401.9	333.4	328.6	345.2	361.7	361.7
20°	1577.0	1501.4	1302.8	870.1	458.7	326.3	314.5	314.5	326.3	345.2	345.2
22.5°	1638.5	1553.4	1281.5	716.4	349.9	302.6	302.6	302.6	309.7	328.6	331.0
25°	1711.8	1617.2	1236.6	553.3	300.3	288.5	288.5	290.8	295.5	312.1	314.5
27.5°	1789.8	1683.4	1160.9	404.3	274.3	271.9	274.3	276.6	279.0	295.5	300.3
30°	1879.7	1756.7	1064.0	302.6	250.6	250.6	257.7	262.4	262.4	276.6	281.4
32.5°	1983.7	1853.7	948.1	250.6	227.0	224.6	236.4	243.5	243.5	255.4	260.1
35°	2113.7	1953.0	808.6	222.2	208.1	203.3	208.1	219.9	224.6	234.1	236.4
37.5°	2286.3	2071.2	659.7	205.7	193.9	184.4	184.4	186.8	196.2	205.7	208.1
40°	2506.2	2201.2	513.1	193.9	179.7	170.2	163.1	160.8	158.4	165.5	170.2
42.5°	2782.9	2347.8	383.0	182.1	167.9	153.7	144.2	134.8	122.9	120.6	122.9
45°	3137.5	2527.5	283.7	172.6	160.8	139.5	122.9	106.4	85.1	78.0	80.4
47.5°	3556.0	2714.3	222.2	163.1	156.0	122.9	101.7	73.3	52.0	47.3	49.7
50°	4000.5	2894.0	189.1	151.3	146.6	106.4	73.3	44.9	30.7	30.7	33.1
52.5°	4378.8	2995.6	172.6	141.9	132.4	87.5	47.3	26.0	18.9	18.9	21.3
55°	4745.3	3050.0	160.8	132.4	113.5	61.5	26.0	16.6	11.8	11.8	11.8
57.5°	5123.6	3073.7	146.6	120.6	89.8	37.8	14.2	9.5	7.1	7.1	7.1
60°	5459.3	3028.7	125.3	99.3	59.1	18.9	7.1	7.1	4.7	2.4	2.4
62.5°	5740.7	2943.6	87.5	70.9	35.5	9.5	4.7	2.4	0.0	0.0	0.0
65°	5913.3	2806.5	56.7	47.3	21.3	7.1	2.4	0.0	0.0	0.0	0.0
67.5°	5863.6	2548.8	35.5	30.7	9.5	4.7	2.4	0.0	0.0	0.0	0.0
70°	5291.4	2090.1	26.0	18.9	7.1	2.4	0.0	0.0	0.0	0.0	0.0
72.5°	3813.7	1413.9	18.9	11.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	1834.7	503.6	11.8	9.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	449.2	111.1	7.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	99.3	21.3	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.1	9.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	2.4	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)