

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: P573466

Luminaire Tested: **ARCH-S-PA2-80-730-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-80-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10645 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

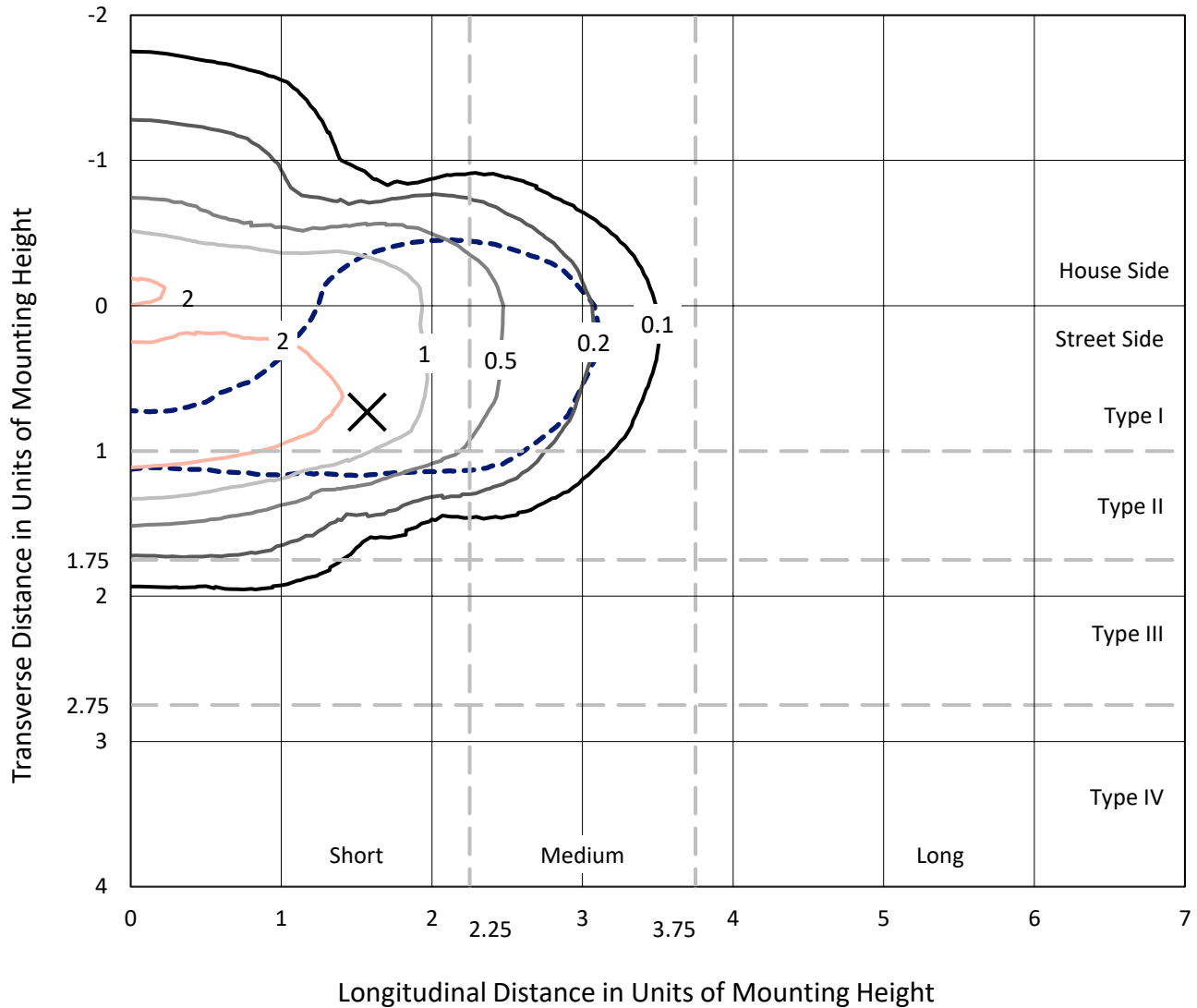
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573466
 CATALOG NUMBER: ARCH-S-PA2-80-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

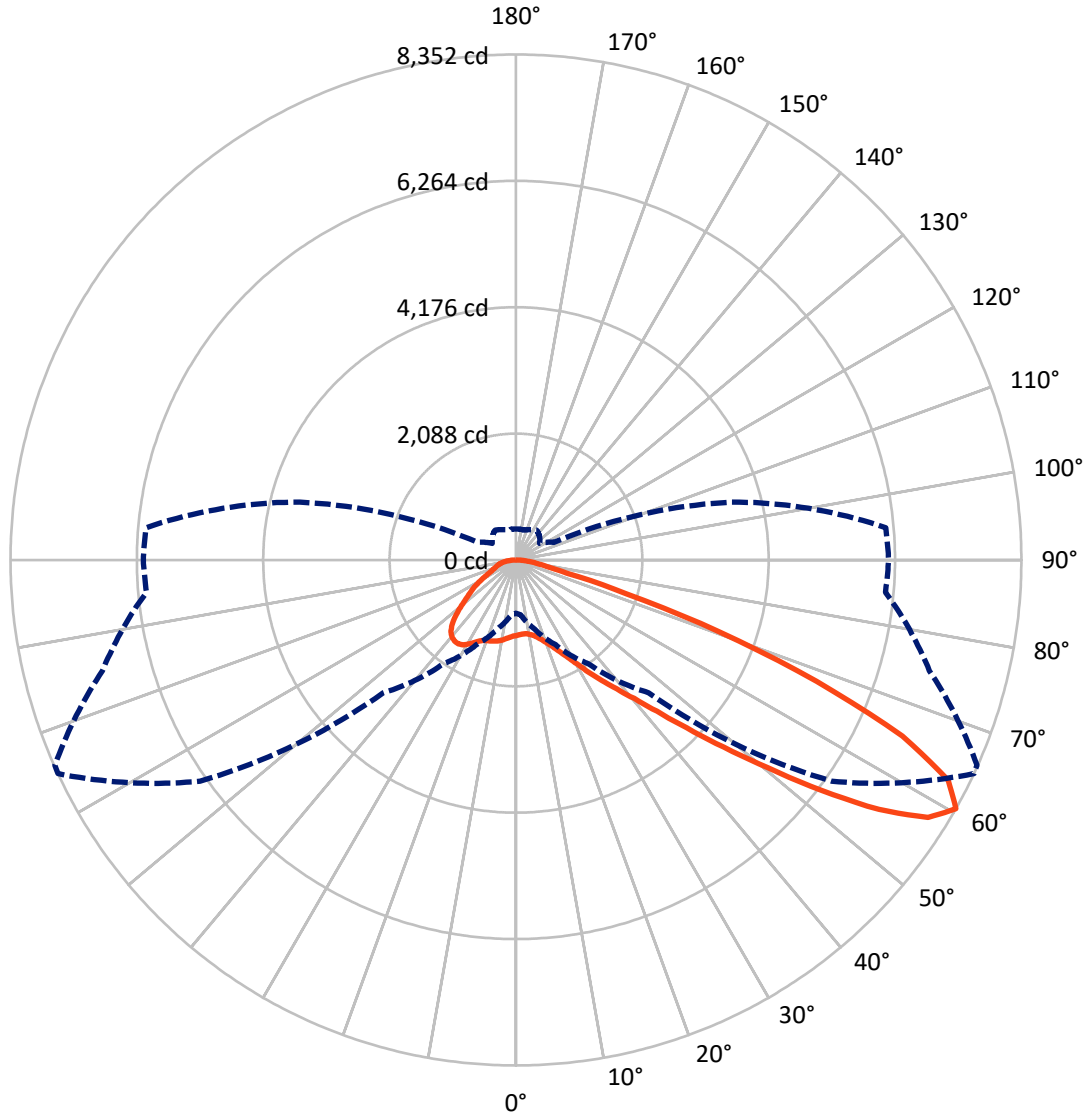
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

REPORT NUMBER: P573466
CATALOG NUMBER: ARCH-S-PA2-80-730-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P573466
 CATALOG NUMBER: ARCH-S-PA2-80-730-U-T2U

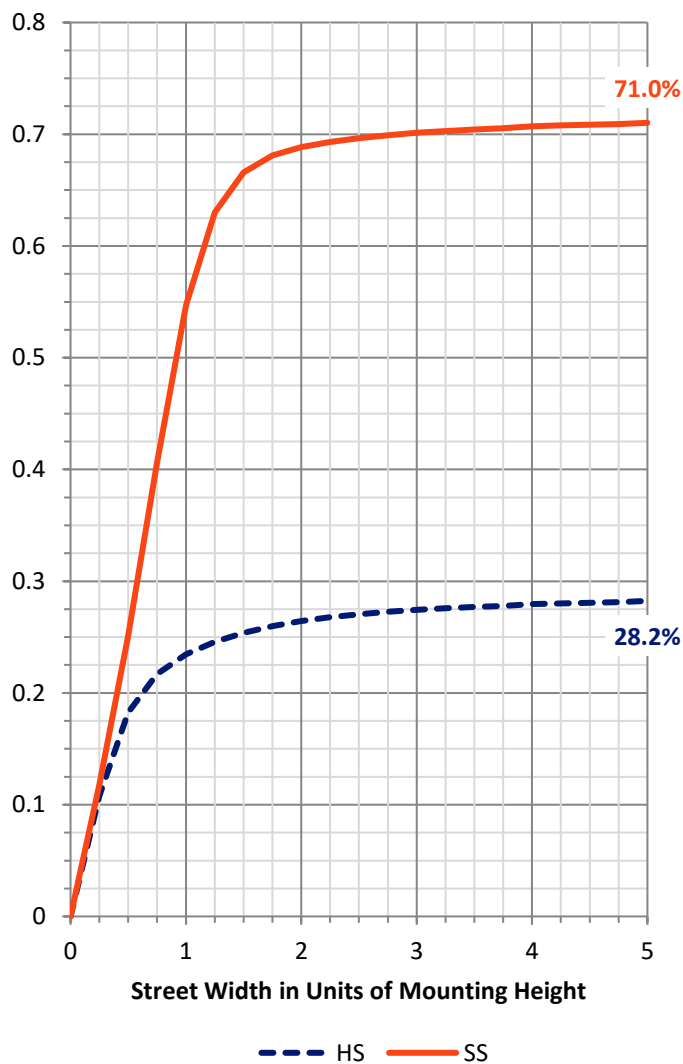
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3047.4	0.0	3047.4
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	7597.6	0.0	7597.6
	% Fixture	71.4	0.0	71.4
Total	Lumens	10645.0	0.0	10645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	1.1
10°-20°	388.4	3.6
20°-30°	744.5	7.0
30°-40°	1293.0	12.1
40°-50°	2192.9	20.6
50°-60°	2730.6	25.7
60°-70°	2200.4	20.7
70°-80°	833.2	7.8
80°-90°	141.3	1.3
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°	10645.0	100.0
0°-180°	10645.0	100.0

Coefficient of Utilization



REPORT NUMBER: P573466

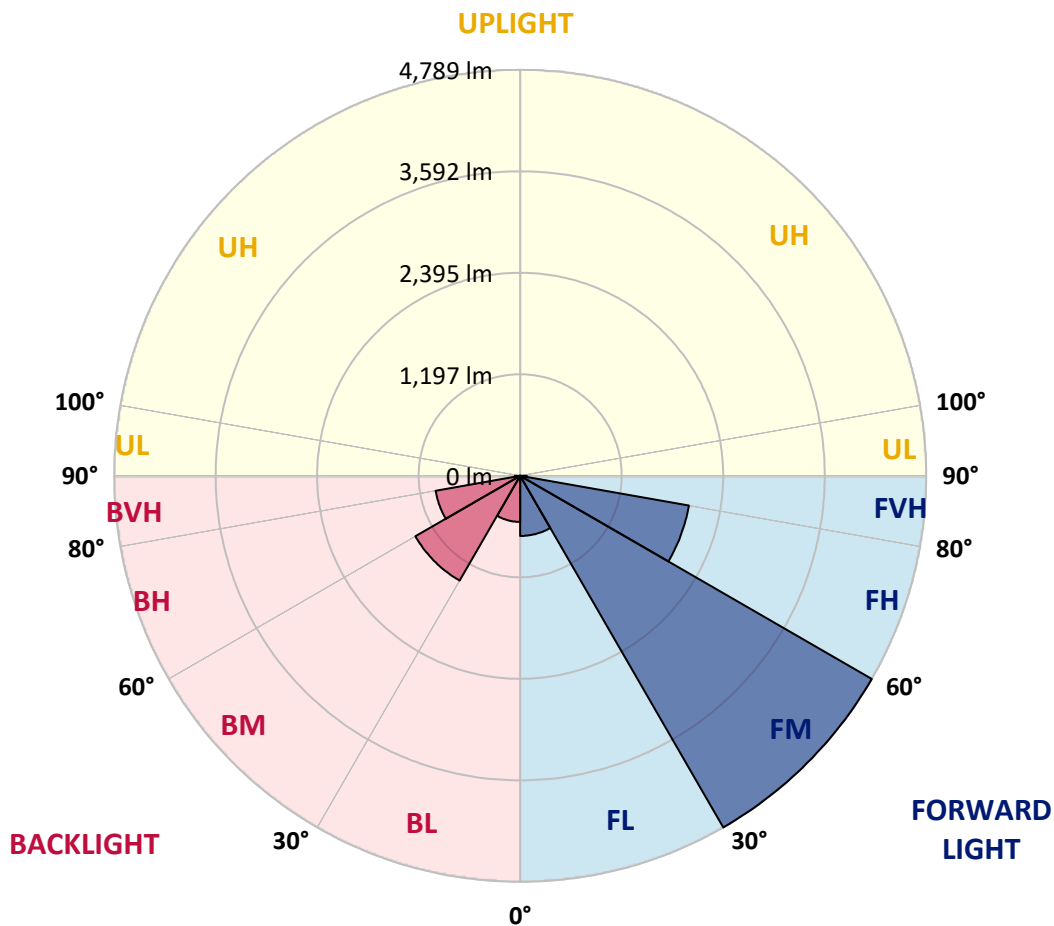
CATALOG NUMBER: ARCH-S-PA2-80-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	709.7	6.7			
FM (30°-60°)	4789.2	45.0			
FH (60°-80°)	2020.4	19.0			G2/5000
FVH (80°-90°)	78.4	0.7			G1/100
BL (0°-30°)	543.9	5.1	B2/1000		
BM (30°-60°)	1427.3	13.4	B2/2500		
BH (60°-80°)	1013.2	9.5	B3/2500		G3/2500
BVH (80°-90°)	62.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P573466

CATALOG NUMBER: ARCH-S-PA2-80-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1219.8	1219.8	1219.8	1222.7	1225.6	1228.6	1234.4	1234.4	1234.4	1237.3	1243.1
5°	1196.5	1193.5	1196.5	1199.4	1205.2	1211.0	1222.7	1228.6	1228.6	1240.2	1251.9
7.5°	1199.4	1193.5	1193.5	1196.5	1202.3	1208.1	1219.8	1228.6	1231.5	1246.1	1266.5
10°	1228.6	1219.8	1219.8	1222.7	1222.7	1228.6	1237.3	1249.0	1251.9	1266.5	1286.9
12.5°	1289.8	1281.1	1278.2	1269.4	1260.7	1266.5	1275.2	1278.2	1281.1	1289.8	1310.3
15°	1418.2	1403.6	1380.3	1362.8	1339.4	1324.9	1321.9	1324.9	1324.9	1327.8	1339.4
17.5°	1602.1	1584.6	1549.6	1511.6	1456.2	1409.5	1394.9	1383.2	1383.2	1374.5	1374.5
20°	1826.8	1800.5	1759.7	1704.2	1622.5	1537.9	1488.3	1462.0	1453.3	1438.7	1418.2
22.5°	2086.5	2069.0	2016.5	1931.8	1809.3	1695.5	1613.8	1555.4	1555.4	1520.4	1476.6
25°	2392.9	2360.8	2299.5	2200.3	2034.0	1870.5	1759.7	1675.0	1666.3	1610.8	1540.8
27.5°	2690.6	2670.1	2594.3	2462.9	2264.5	2074.8	1920.2	1820.9	1806.3	1718.8	1610.8
30°	3052.4	3029.1	2915.3	2731.4	2518.4	2302.4	2121.5	1993.1	1978.5	1858.9	1707.1
32.5°	3501.8	3423.0	3282.9	3072.8	2798.5	2556.3	2349.1	2212.0	2194.5	2057.3	1876.4
35°	4047.5	3980.4	3738.2	3516.4	3189.6	2871.5	2623.4	2442.5	2419.2	2255.7	2028.1
37.5°	4432.7	4400.6	4234.3	4059.2	3685.7	3256.7	2953.2	2702.2	2678.9	2462.9	2168.2
40°	4674.9	4642.8	4596.1	4546.5	4339.3	3854.9	3350.1	3008.6	2970.7	2766.4	2448.3
42.5°	4800.4	4774.1	4782.9	4882.1	4940.5	4864.6	3916.2	3417.2	3390.9	3142.9	2789.8
45°	4727.4	4709.9	4794.6	5057.2	5343.2	5903.5	4642.8	3954.1	3884.1	3589.4	3204.2
47.5°	4377.3	4324.7	4523.2	4969.7	5582.5	6399.6	5518.3	4616.6	4540.7	4117.5	3624.4
50°	3656.5	3641.9	3913.3	4479.4	5489.1	6595.1	6455.0	5398.6	5343.2	4686.6	4091.3
52.5°	2985.3	2979.5	3189.6	3709.0	4893.8	6457.9	7134.9	6329.5	6163.2	5258.6	4599.0
55°	2317.0	2314.1	2500.9	2889.0	3904.5	5813.0	7455.9	7277.9	7155.4	5883.0	5121.4
57.5°	1584.6	1564.1	1806.3	2101.1	2932.8	4604.9	7245.8	8027.9	7952.0	6545.5	5675.8
60°	881.3	910.5	1178.9	1543.7	2098.2	3102.0	6370.4	8351.8	8340.1	7073.7	6128.2
62.5°	624.5	636.2	750.0	1097.2	1380.3	1777.2	4914.2	8016.2	8109.6	7365.5	6385.0
65°	519.4	525.3	580.7	811.3	1009.7	1027.2	3064.1	7021.1	7143.7	7275.0	6440.4
67.5°	490.3	493.2	522.4	598.2	790.8	744.1	1368.6	5360.7	5620.4	6545.5	6078.6
70°	446.5	449.4	493.2	528.2	639.1	586.6	703.3	3560.2	3910.4	5173.9	5241.0
72.5°	382.3	391.0	426.1	496.1	519.4	487.3	542.8	1902.6	2249.9	3461.0	4047.5
75°	329.8	335.6	361.9	420.2	487.3	388.1	461.1	866.7	1015.5	2031.0	2562.2
77.5°	265.6	268.5	306.4	344.3	408.5	315.2	358.9	519.4	545.7	992.2	1158.5
80°	201.4	201.4	227.6	274.3	303.5	303.5	262.6	361.9	376.4	472.7	458.2
82.5°	154.7	151.7	172.2	192.6	218.9	253.9	198.4	239.3	245.1	286.0	245.1
85°	102.1	102.1	113.8	131.3	145.9	140.1	154.7	140.1	145.9	178.0	134.2
87.5°	43.8	43.8	61.3	58.4	64.2	67.1	75.9	67.1	67.1	81.7	61.3
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: P573466

CATALOG NUMBER: ARCH-S-PA2-80-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1246.1	1249.0	1254.8	1257.7	1266.5	1269.4	1269.4	1275.2	1275.2	1281.1	1281.1
5°	1254.8	1263.6	1272.3	1281.1	1289.8	1292.8	1298.6	1301.5	1301.5	1307.3	1304.4
7.5°	1272.3	1281.1	1298.6	1307.3	1319.0	1324.9	1321.9	1324.9	1321.9	1324.9	1324.9
10°	1295.7	1307.3	1327.8	1339.4	1348.2	1351.1	1342.4	1333.6	1321.9	1321.9	1321.9
12.5°	1321.9	1330.7	1357.0	1365.7	1371.5	1362.8	1339.4	1321.9	1313.2	1316.1	1313.2
15°	1348.2	1357.0	1377.4	1386.1	1386.1	1359.9	1339.4	1333.6	1330.7	1333.6	1333.6
17.5°	1374.5	1383.2	1400.7	1400.7	1392.0	1371.5	1351.1	1330.7	1316.1	1307.3	1307.3
20°	1409.5	1409.5	1415.3	1415.3	1412.4	1380.3	1330.7	1281.1	1251.9	1234.4	1231.5
22.5°	1456.2	1444.5	1432.8	1432.8	1444.5	1359.9	1263.6	1187.7	1141.0	1135.2	1123.5
25°	1505.8	1479.5	1450.3	1470.8	1450.3	1307.3	1170.2	1068.1	1012.6	992.2	998.0
27.5°	1558.3	1517.5	1473.7	1532.0	1421.2	1205.2	1038.9	925.1	872.5	857.9	857.9
30°	1631.3	1570.0	1505.8	1596.2	1365.7	1088.5	884.2	802.5	773.3	761.6	758.7
32.5°	1771.3	1678.0	1584.6	1654.6	1304.4	936.7	779.2	729.5	694.5	682.9	691.6
35°	1896.8	1765.5	1704.2	1680.9	1208.1	814.2	715.0	671.2	642.0	627.4	627.4
37.5°	2010.6	1885.1	1838.4	1680.9	1082.6	738.3	674.1	639.1	601.1	589.5	589.5
40°	2258.7	2092.3	2010.6	1657.5	928.0	700.4	653.7	612.8	580.7	569.0	566.1
42.5°	2600.1	2375.4	2188.6	1605.0	796.7	682.9	642.0	595.3	569.0	560.3	557.4
45°	2961.9	2763.5	2357.9	1511.6	712.0	665.3	639.1	589.5	557.4	548.6	545.7
47.5°	3399.7	3195.4	2553.4	1368.6	653.7	653.7	636.2	580.7	551.5	542.8	542.8
50°	3884.1	3714.8	2801.4	1205.2	609.9	644.9	630.3	580.7	548.6	539.9	536.9
52.5°	4380.2	4301.4	3061.2	1044.7	566.1	633.2	627.4	580.7	542.8	534.0	534.0
55°	5010.5	4946.3	3361.7	925.1	531.1	609.9	627.4	574.9	534.0	528.2	528.2
57.5°	5629.2	5605.8	3595.2	820.0	504.8	580.7	618.7	566.1	525.3	522.4	522.4
60°	6157.3	6134.0	3694.4	688.7	478.6	551.5	601.1	551.5	510.7	513.6	513.6
62.5°	6484.2	6349.9	3621.5	569.0	452.3	525.3	580.7	534.0	496.1	504.8	501.9
65°	6542.5	6230.3	3338.4	475.7	423.1	496.1	557.4	513.6	475.7	496.1	493.2
67.5°	6113.6	5594.1	2807.3	414.4	394.0	464.0	531.1	484.4	452.3	481.5	472.7
70°	5185.6	4543.6	2077.7	367.7	364.8	426.1	496.1	449.4	420.2	434.8	423.1
72.5°	3860.7	3280.0	1345.3	332.7	332.7	382.3	446.5	405.6	376.4	379.4	367.7
75°	2407.5	2016.5	764.6	300.6	300.6	338.5	396.9	356.0	335.6	323.9	338.5
77.5°	1094.3	887.1	402.7	268.5	271.4	288.9	341.4	303.5	280.1	262.6	271.4
80°	405.6	361.9	262.6	230.5	236.4	239.3	274.3	242.2	221.8	210.1	204.3
82.5°	210.1	195.5	178.0	183.8	192.6	183.8	213.0	180.9	157.6	148.8	125.5
85°	105.1	102.1	108.0	122.6	134.2	113.8	128.4	116.7	96.3	70.0	70.0
87.5°	40.9	43.8	40.9	55.4	61.3	52.5	58.4	40.9	29.2	14.6	11.7
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)