

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: P483497

Luminaire Tested: **IFLD-S-SA2D-727-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483497
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

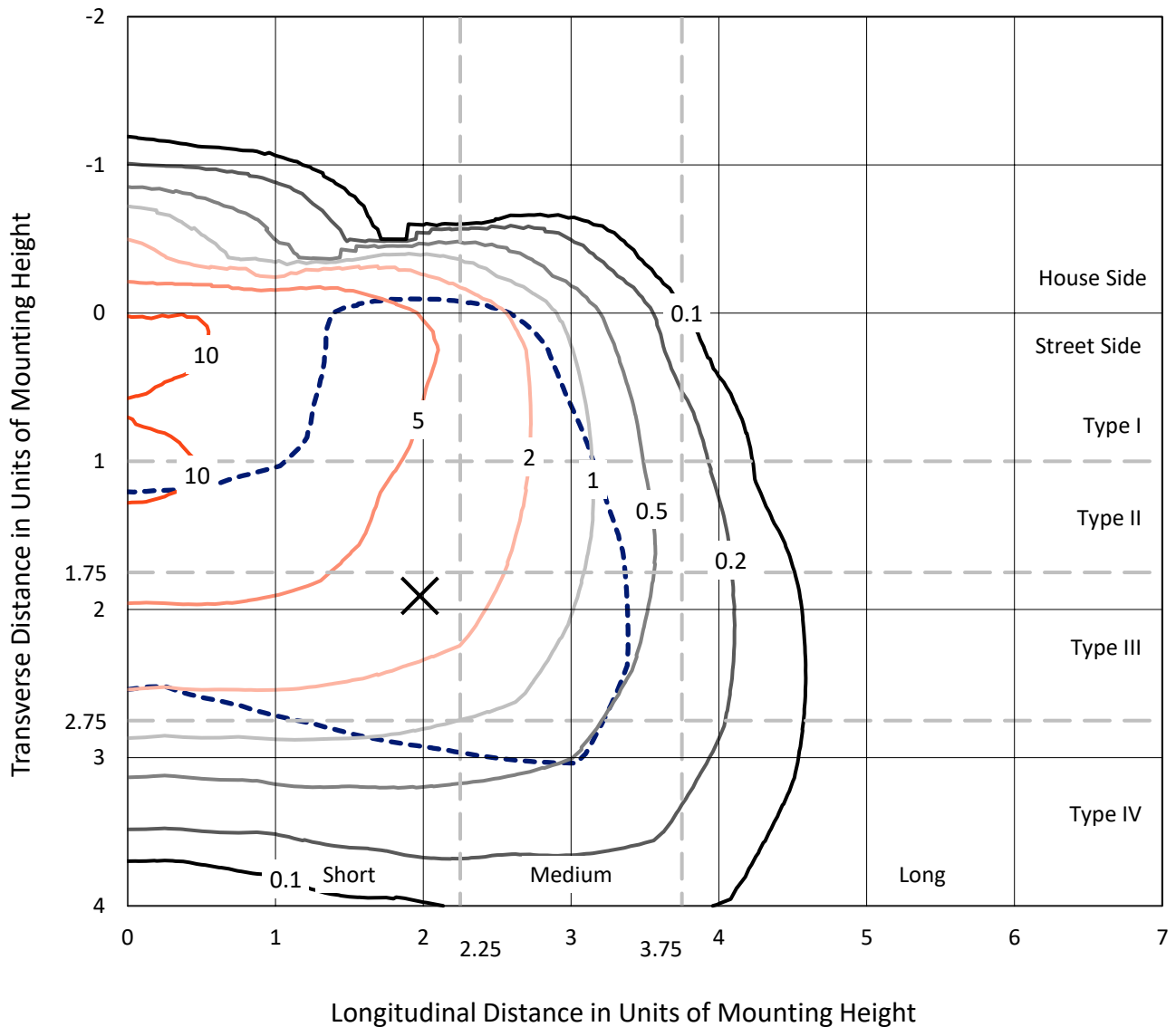
Lumens per Lamp: N/A
Luminaire Lumens: 9650.4 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
Input Voltage (V): 120
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

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Iso-Footcandle Lines of Horizontal Illumination

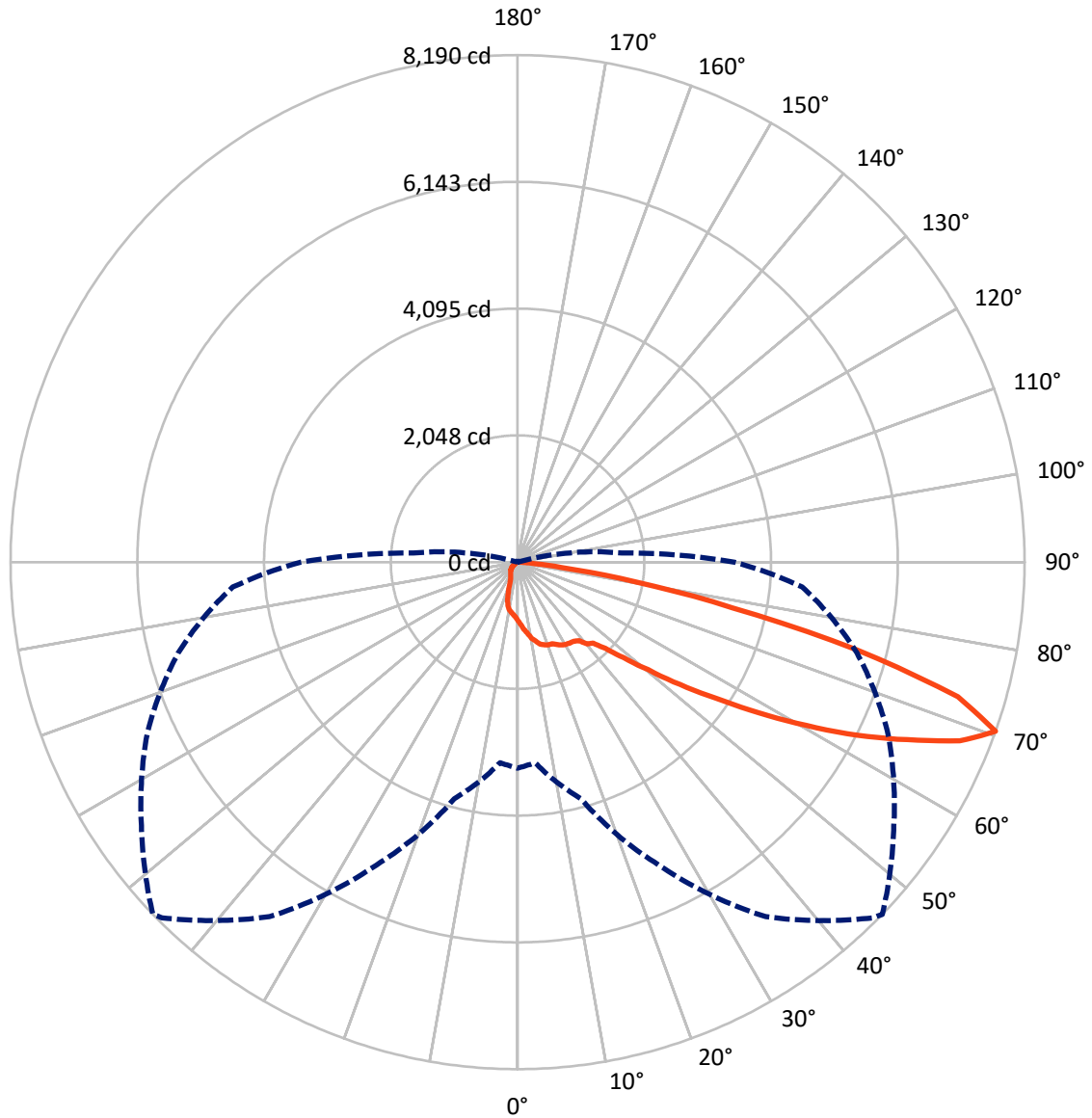
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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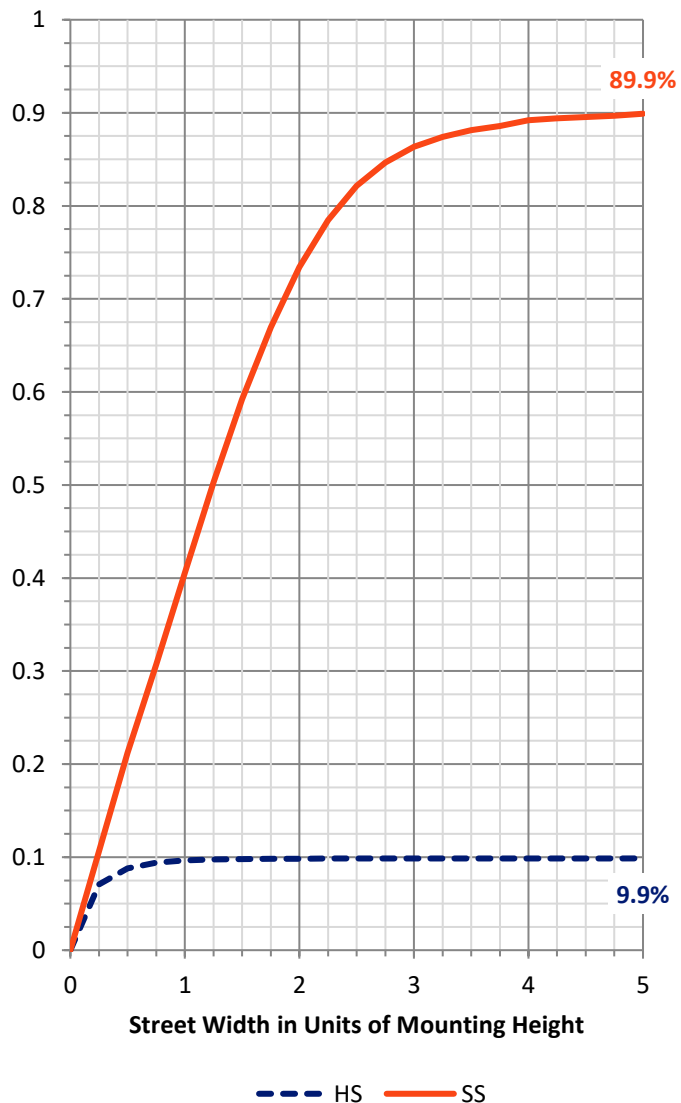
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	960.2	0.0	960.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	8690.2	0.0	8690.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	9650.4	0.0	9650.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	1.0
10°-20°	285.3	3.0
20°-30°	456.9	4.7
30°-40°	652.2	6.8
40°-50°	1126.2	11.7
50°-60°	2156.2	22.3
60°-70°	3193.1	33.1
70°-80°	1581.5	16.4
80°-90°	104.5	1.1
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°	9650.4	100.0
0°-180°	9650.4	100.0

Coefficient of Utilization



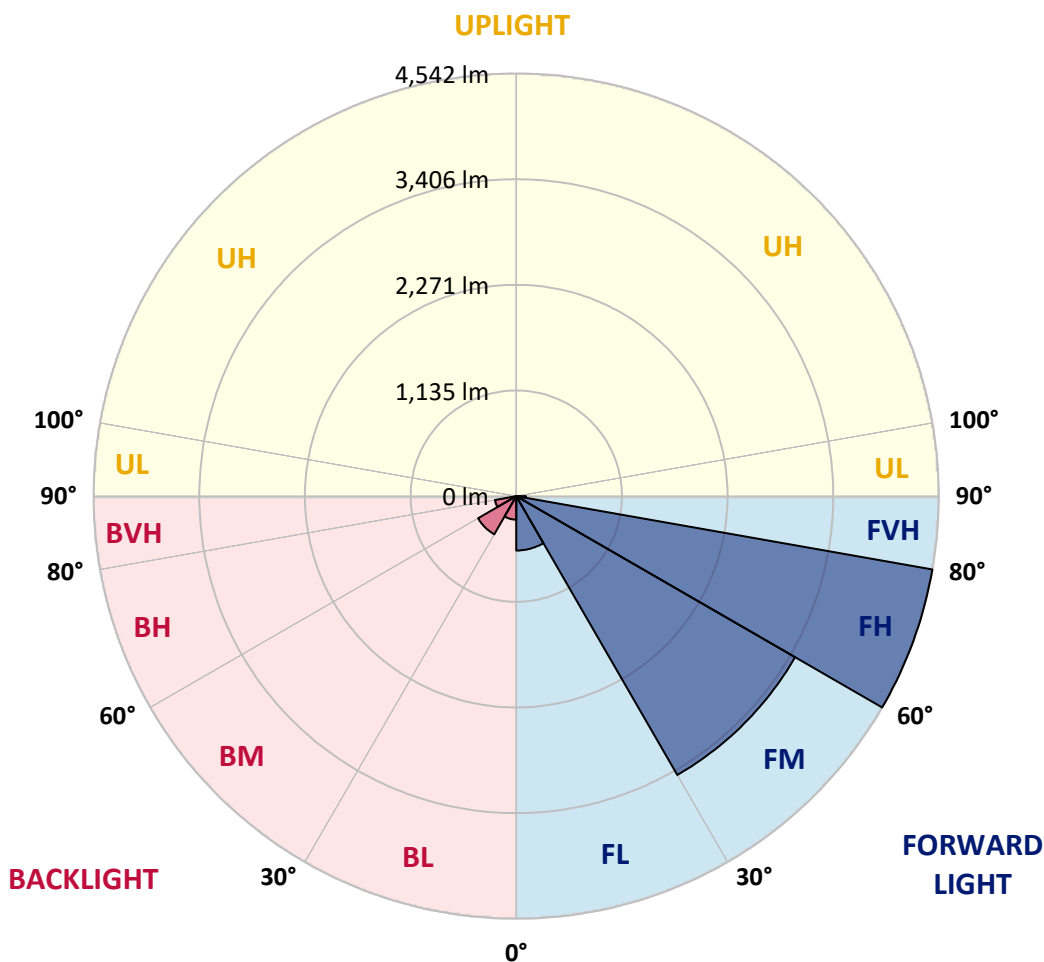
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.4	6.1			
FM (30°-60°)	3460.6	35.9			
FH (60°-80°)	4542.0	47.1			G2/5000
FVH (80°-90°)	103.2	1.1			G2/225
BL (0°-30°)	252.3	2.6	B1/500		
BM (30°-60°)	474.1	4.9	B1/1000		
BH (60°-80°)	232.6	2.4	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4
2.5°	1057.1	1050.2	1039.0	1034.9	1023.8	1018.2	1009.9	1005.7	990.4	975.2	965.4
5°	1186.3	1169.6	1175.2	1158.5	1122.4	1093.2	1091.8	1059.9	1025.2	997.4	959.9
7.5°	1316.9	1303.0	1282.1	1258.5	1218.2	1175.2	1162.7	1132.1	1083.5	1034.9	984.9
10°	1415.5	1405.8	1387.7	1354.4	1298.8	1250.2	1251.6	1200.2	1148.8	1093.2	1025.2
12.5°	1476.6	1480.8	1454.4	1421.1	1372.4	1311.3	1309.9	1275.2	1216.9	1158.5	1077.9
15°	1537.7	1553.0	1512.7	1473.8	1411.3	1366.9	1375.2	1333.5	1276.6	1209.9	1121.0
17.5°	1547.5	1551.6	1543.3	1486.3	1440.5	1403.0	1404.4	1376.6	1333.5	1261.3	1184.9
20°	1530.8	1528.0	1518.3	1476.6	1446.1	1423.8	1425.2	1418.3	1394.7	1336.3	1232.1
22.5°	1482.2	1482.2	1469.7	1441.9	1428.0	1448.8	1432.2	1458.6	1433.6	1398.8	1312.7
25°	1443.3	1458.6	1451.6	1433.6	1439.1	1466.9	1475.2	1500.2	1496.1	1453.0	1368.3
27.5°	1485.0	1466.9	1471.1	1450.2	1471.1	1512.7	1516.9	1535.0	1533.6	1498.8	1418.3
30°	1512.7	1529.4	1497.5	1451.6	1473.8	1544.7	1541.9	1565.5	1576.6	1535.0	1465.5
32.5°	1601.6	1587.7	1561.4	1500.2	1503.0	1543.3	1555.8	1586.4	1593.3	1568.3	1511.3
35°	1783.6	1762.8	1647.5	1555.8	1541.9	1561.4	1569.7	1629.4	1641.9	1614.1	1560.0
37.5°	2064.2	2017.0	1878.1	1675.3	1612.7	1608.6	1608.6	1687.8	1735.0	1671.1	1632.2
40°	2465.7	2399.0	2249.0	1896.1	1705.8	1722.5	1739.2	1782.2	1776.7	1735.0	1726.7
42.5°	2976.8	2925.5	2762.9	2267.0	1883.6	1800.3	1786.4	1844.7	1932.2	1915.6	1910.0
45°	3403.3	3406.1	3301.9	2775.4	2190.6	1979.5	1989.2	2033.6	2180.9	2168.4	2167.0
47.5°	3714.5	3675.6	3660.3	3265.8	2637.9	2319.8	2305.9	2336.5	2528.2	2607.3	2643.5
50°	3997.8	3971.4	3935.3	3742.2	3175.5	2746.3	2732.4	2735.1	3028.2	3139.4	3228.3
52.5°	4349.3	4382.6	4263.2	4145.1	3871.4	3300.5	3285.2	3231.1	3595.0	3747.8	3853.4
55°	4782.7	4720.2	4585.4	4646.6	4536.8	3899.2	3871.4	3807.5	4240.9	4304.8	4416.0
57.5°	4878.5	4831.3	4970.2	5186.9	5292.5	4602.1	4591.0	4475.7	4784.1	4725.7	5039.7
60°	5117.5	5130.0	5323.0	5753.7	5937.0	5413.3	5359.2	5156.4	5310.5	5321.7	5656.4
62.5°	5363.3	5334.2	5766.2	6180.1	6462.1	6181.5	6163.5	5760.6	5935.6	5794.0	6237.1
65°	5182.7	5227.2	5845.3	6538.5	7142.8	6933.0	6917.7	6342.6	6438.5	6262.1	6473.2
67.5°	4541.0	4450.7	5316.1	6374.6	7492.8	7720.6	7704.0	6977.5	6721.9	6259.3	5982.9
70°	3328.3	3250.5	3956.2	5398.1	6991.4	8123.5	8190.2	7419.2	6606.6	5675.9	4616.0
72.5°	1630.8	1632.2	2217.0	3660.3	5531.4	7403.9	7437.3	6802.4	5675.9	4184.0	2614.3
75°	482.0	487.6	821.0	1794.7	3575.6	5623.1	5660.6	5163.3	3933.9	2161.4	891.8
77.5°	176.4	176.4	272.3	673.7	1783.6	3549.2	3546.4	3169.9	1992.0	732.1	208.4
80°	91.7	95.8	141.7	275.0	772.3	1848.9	1918.4	1551.6	757.1	308.4	61.1
82.5°	37.5	41.7	77.8	141.7	370.9	648.7	709.8	608.4	329.2	215.3	27.8
85°	11.1	12.5	37.5	79.2	145.9	162.5	180.6	204.2	207.0	166.7	12.5
87.5°	1.4	1.4	15.3	26.4	31.9	34.7	40.3	40.3	105.6	116.7	6.9
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°	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4
2.5°	954.3	947.4	936.3	911.3	905.7	887.6	886.2	869.6	875.1	864.0	859.9
5°	947.4	932.1	901.5	882.1	862.6	850.1	841.8	834.9	833.5	827.9	825.1
7.5°	959.9	939.0	891.8	861.2	827.9	816.8	798.7	797.3	787.6	777.9	777.9
10°	1001.5	964.0	912.6	861.2	818.2	782.1	740.4	709.8	698.7	673.7	676.5
12.5°	1034.9	1001.5	926.5	873.7	808.5	726.5	634.8	564.0	530.6	498.7	511.2
15°	1082.1	1033.5	952.9	876.5	771.0	629.3	479.2	400.1	369.5	362.6	361.2
17.5°	1133.5	1082.1	986.3	869.6	694.6	486.2	352.8	307.0	312.5	320.9	319.5
20°	1190.5	1128.0	1011.3	846.0	573.7	352.8	288.9	287.5	295.9	308.4	311.2
22.5°	1250.2	1196.0	1041.8	775.1	427.8	283.4	277.8	277.8	283.4	298.7	295.9
25°	1316.9	1244.6	1057.1	665.4	307.0	261.2	263.9	269.5	272.3	284.8	286.2
27.5°	1368.3	1298.8	1061.3	533.4	250.0	241.7	248.6	255.6	259.8	269.5	273.7
30°	1415.5	1366.9	1039.0	397.3	229.2	225.0	227.8	237.5	245.9	254.2	254.2
32.5°	1475.2	1405.8	987.7	282.0	216.7	209.8	208.4	212.5	222.3	232.0	232.0
35°	1536.3	1471.1	905.7	226.4	205.6	195.9	190.3	186.1	190.3	197.3	202.8
37.5°	1625.3	1569.7	802.9	208.4	197.3	183.4	172.2	162.5	155.6	154.2	158.4
40°	1751.7	1680.8	670.9	195.9	187.5	170.9	154.2	137.5	122.2	112.5	113.9
42.5°	1943.4	1844.7	527.9	188.9	180.6	157.0	133.4	109.7	90.3	80.6	80.6
45°	2217.0	2061.4	387.6	182.0	172.2	140.3	109.7	82.0	62.5	57.0	58.3
47.5°	2629.6	2322.6	277.8	170.9	161.1	122.2	86.1	58.3	45.8	43.1	44.5
50°	3168.5	2632.4	216.7	158.4	147.2	102.8	63.9	43.1	36.1	34.7	36.1
52.5°	3733.9	2944.9	190.3	147.2	126.4	82.0	47.2	34.7	30.6	29.2	30.6
55°	4217.3	3146.3	165.3	130.6	101.4	61.1	37.5	30.6	26.4	22.2	22.2
57.5°	4706.3	3247.7	130.6	108.4	75.0	45.8	31.9	26.4	22.2	18.1	16.7
60°	5103.6	3320.0	93.1	80.6	52.8	36.1	27.8	23.6	18.1	13.9	12.5
62.5°	5364.7	3113.0	68.1	61.1	38.9	30.6	23.6	19.4	13.9	9.7	9.7
65°	5235.5	2826.8	52.8	43.1	29.2	23.6	19.4	13.9	9.7	5.6	4.2
67.5°	4697.9	2303.1	43.1	31.9	22.2	18.1	15.3	11.1	5.6	1.4	1.4
70°	3504.7	1687.8	34.7	23.6	18.1	13.9	11.1	6.9	2.8	1.4	0.0
72.5°	1917.0	923.8	27.8	19.4	13.9	11.1	8.3	5.6	2.8	0.0	0.0
75°	633.4	245.9	20.8	13.9	8.3	6.9	5.6	4.2	1.4	0.0	0.0
77.5°	152.8	63.9	16.7	12.5	6.9	4.2	2.8	1.4	1.4	0.0	0.0
80°	47.2	26.4	12.5	8.3	5.6	4.2	1.4	0.0	0.0	0.0	0.0
82.5°	19.4	12.5	5.6	5.6	4.2	1.4	0.0	0.0	0.0	0.0	0.0
85°	9.7	6.9	4.2	2.8	2.8	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	2.8	1.4	1.4	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)